

论文

二苯胺用作重氮滴定法的内指示剂

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摘要:

关键词:

DI PHENYLAMINE USED AS AN INTERNAL INDICATOR FOR DIAZOTIZATION TITRATIONS

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Abstract:

Diphenyl amine has been found to be an excellent internal indicator for diazo-tization method of determination of aromatic amines, but the mechanism of coloration is still to be studied. From the results obtained under various experimental conditions, it is concluded that various aromatic amino-drugs, including sulfa-drugs, local anesthetics, systemic anti-infectives, etc. can be determined by using this indicator, the results are in good agreement with those obtained by the classical method. A 1 % concentration of diphenylamine is suitable for indicating purpose, the color produced is stable even after 24 hours, and the indicator correction is found to be 0.05 ml M/10 NaNO2 solution. A high speed of titration gives high results, but the effect of temperature is rather small, the titration can be carried out at a temperature as high as 27°C with no appreciable error.

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