

论文

扑尔敏—PVC膜电极的制备及其应用

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摘要:

关键词: 扑尔敏 扑尔敏四苯硼盐—聚氯乙烯膜电极 直接电位法 电位滴定法

CHLORPHENIRAMINE TETRAPHENYLBORATE PVC MEMBRANE ELECTRODE AND ITS APPLICATIONS

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Abstract:

An ion selective electrode for chlorpheniramine (CP) was studied. The PVC(polyvinyl chloride)matrix membrane was prepared by the CP-tetraphenylborate salt, dibutyl phthalate and 10% PVC-tetrahydrofuran solution in weight ratio of 0.007:0.69:3.0. The CP ion electrode shows Nernstian range from 1x10-2 to 1x10-5M in the pH range of 5~7, with an average slope of 56.0±0.1 mV/decade. Paracetamol (4-acetamidophenol), aminopyrine, caffeine, moroxydine, sodium benzoate etc do not interfere, whereas phenergan (promethazine) ion interferes. The electrode is useful as an indicator for the precipitation titration of CP and some of its preparations with sodium tetraphenylborate.

Keywords: Chlorpheniramine tetraphenylborate—polyvinyl chloride membrane electrode Direct potentiometric method Potentiometric method Chlorpheniramine

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