

论文

山莨菪碱选择性电极的研究

沈国励;张燕;俞汝勤

湖南大学,长沙

摘要:

关键词: 山莨菪碱选择性电极 山莨菪碱—四苯硼盐 山莨菪碱—二苦胺 山莨菪碱的pK值

STUDIES ON PVC MEMBRANE ANISODAMINE SELECTIVE ELECTRODES

SHEN Guo-Li; ZHANG Yan and YU Ru-Qin

Abstract:

Using anisodamine-tetraphenylborate or anisodamine-dipicrylamine ion-pair complexes as active principle, PVC membrane anisodamine ion selective electrodes were prepared. The effects of different active materials, solvent and internal reference systems and other factors on the performances of electrodes have been discussed in detail. It has been found that the use of di-(2-ethylhexyl)-ophthalate and dinonyl-o-phthalate as solvents can give higher electrode slope and the optimum membrane content of active material is 0.5%. The selectivity coefficients for interfering substances, were determined. It is to be pointed out that only quaternary ammonium compounds and alkaloids showed remarkable interference. The anisodamine samples were analyzed by direct fjotentiometric procedure. The pK value of anisodamine was determined potentiometrically using the proposed anisodamine electrode.

Keywords: Anisodamine-tetraphenylborate Anisodamine-dipicrylamine pK value of anisodamine Anisodamine selective electrode

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