

论文

苯扎溴铵选择性电极的研制

朱世民;郭黎平;董学芝

南京大学化学系; **东北师范大学化学系, 进修教师; ***河南大学化学系, 进修教师

摘要:

关键词: 苯扎溴铵 苯扎溴铵选择性电极

STUDY ON BENZAKONIUM BROMIDE ION SELECTIVE ELECTRODE

ZHU Shi-Min; GUO Li-Ping and DONG Xue-Zhi

Abstract:

The PVC membrane selective electrode for benzalkonium bromide was studied. It is based on the use of benzalkonium tetraphenylborate ion pair complex as the active material. The PVC membrane electrode showed Nernstian response over the concentration range from 10⁻³ mol/L to 5×10⁻⁶ mol/L with a slope of 53~57 mV/pC, and the detection limit was found to be 3×10⁻⁶ mol/L. The electrode showed rapid response and good reproducibility. The selectivity coefficients of 16 substances were determined. Using direct potentiometric determination, the recovery of pure benzalkonium bromide was 101.8%. The present method is more rapid and simpler than the volumetric method given in the Chinese Pharmacopoeia.

Keywords: Benzalkonium bromide selective electrode Benalkonium bromide

收稿日期 1986-06-04 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

1. 沈友昌; 范锦华; 黄德培; 孟令琴. ClO₄⁻场效应敏感器件的研制及其在药物分析中的应用[J]. 药学报, 1987, 22(10): 785-789
2. 李志良; 李梦龙; 钱锋; 石乐明; 俞汝勤. 卡尔曼滤波滴定分析法: 苯扎溴铵的测定[J]. 药学报, 1990, 25(1): 35-43

文章评论 (请注意: 本站实行文责自负, 请不要发表与学术无关的内容! 评论内容不代表本站观点.)

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(181KB)
- ▶ [HTML全文]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 苯扎溴铵
- ▶ 苯扎溴铵选择性电极

本文作者相关文章

- ▶ 朱世民
- ▶ 郭黎平
- ▶ 董学芝

PubMed

- ▶ Article by
- ▶ Article by
- ▶ Article by

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反			

反馈
标题

验证码

3114