

马琳 北京市海淀区车公庄西路14号 北京市环境保护监测中心分析实验室 100044

王涛 北京市环境保护监测中心 100044

摘要：应用FIA自动离子分析仪，通过更换载液，改变部分检测条件，可更好的完成水中阴离子表面活性剂的测定，降低检出限（低于0.01mg/L），提高低浓度水平样品测定的准确度，曲线相关系数达到0.9995以上。通过收集各类水质进行实际样品的加标回收率实验，平均加标回收率为90.6%-108.1%，测定数据具有良好的重现性和测试精度，既节省碱性亚甲基蓝溶液，又能更好地达到对系统的清洗效果。与传统方法相比，既节约大量的时间又提高工作效率。

关键词：流动注射分析仪, 阴离子表面活性剂测定, 条件改进

文章全文为PDF格式，请下载 to 本机浏览。[[下载全文](#)]

如您没有PDF阅读器，请先下载PDF阅读器 Acrobat Reader [[下载阅读器](#)]

[Determination of anionic surfactants in water using flow injection analysis instrument and improvement of condition](#)

100044

100044

Abstract: Using FIA automatic ion analyzer, the determination of anionic surfactants in water can be better finished though replacing the carrier. The limit of detection can be reduced (under 0.01mg/L), and the determining accuracy of the low-concentration samples can be increased, the correlation coefficient of the curve can reach above 0.9995. We sampled all sorts of water quality, and the average recovery can amount from 90.6% to 108.1%. The determining data has a favorable reproducibility and measuring accuracy. This method does not only economize the solution of Alkaline Methylene Blue, but also achieve the cleaning effect for the system. Compared to the traditional method, the new one can saved a large quantity of time as well as raised the work efficiency.

Key words: Flow injection analysis instrument, Determination of anionic surfactants in water, Improvement of condition

[【大 中 小】](#) [[关闭窗口](#)]