

TIE-93007enL

Application Memo Benzalkonium Chloride

Industry Cosmetics soap

Instrument Automatic potentiometric titrator

Measurement method Surfactant titration
Standards Japanese Pharmacopoeia

1. Overview

Benzalkonium chloride is measured first by diluting test sample with pure water and adjusting pH with 0.1mol/L hydrochloric acid, and then by potentiometrically titrating with the 0.02mol/L sodium tetraphenylboron solution. The endpoint is determined by the inflexion from the color change of indicator on the titration curve.

Concentration of benzalkonium chloride is calculated from the titration volume of the sodium tetraphenylboron solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier PTA)

Electrode Photometric sensor

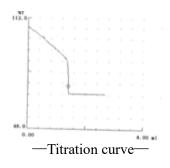
Interference filter (630nm)

3. Reagents

Titrant 0.02mo1/L sodium tetraphenylboron

Solvent Pure water
Additive 0.1mol/L HCl
Indicator Methyl orange

4. Example



—Measurement results—			
	Sample	Titer	Concentration
	(g)	(mL)	(%)
1	10.0612	2.8465	50.227

Please feel free to contact us for any further information.

< Contact > Kyoto Electronics Manufacturing Co., Ltd.

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