

Application Memo

Anionic Surfactant in Laundry Detergent

Industry	Cosmetics soap
Instrument	Automatic potentiometric titrator
Measurement method	Ion association titration
Standards	

1. Overview

Here we demonstrate quantification of anionic surfactant making by using the particle changer detector unit (PCD-500) and the automatic potentiometric titrator. Add cationic solution (normal solution) to the sample liquid, and back titrate the remaining cation with anionic surfactant as a titrant. Thus, we obtained the measurement results of a good repeatability as follows.

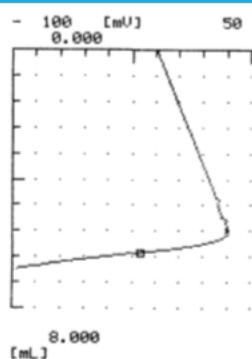
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD) Particle changer detector unit (PCD-500)
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3. Reagents

Titrant	0.004mol/L n-sodium dodecylbenzenesulfonate
Solvent	Distilled water
Reagent	0.004mol/L benzethonium chloride, Ethanol

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Concentration (%)
1	5.0	6.2974	3.727
2	5.0	6.3216	3.702
3	5.0	6.2736	3.750
Average			3.726
SD			0.024
RSD(%)			0.64

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