

Application Memo

Determination of Anionic Surfactant

Industry	Cosmetics & soap
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

1. Overview

The density of the sample prepared to a concentration of 0.04 mol/L is measured. The prepared sample is diluted and is titrated with 0.04mol/L benzethonium chloride using PCD-500. The endpoint is the maximum inflexion on the titration curve. The anionic surfactant concentration is calculated from the sample density and the titration volume of the benzetonium chloride.

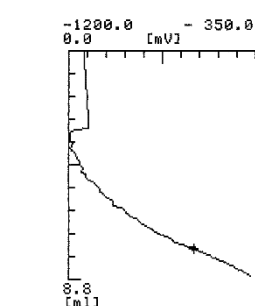
2. Apparatus

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

3. Reagents

Titrant	0.04mol/L benzetonium chloride
Solvent	Pure water

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Density (g/cm ³)	Titer (mL)	Concentration (%)
1	5.0033	1.00157	7.6720	76.892
2	5.0014	1.00157	7.6163	76.363
3	4.9975	1.00157	7.2964	73.213
Average				75.489
SD				1.989
RSD(%)				2.634

Please feel free to contact us for any further information.
<Contact> Kyoto Electronics Manufacturing Co., Ltd.
Overseas Sales & Marketing Sect.
<http://www.kyoto-kem.com/en/contact/form.php>