

Application Memo

Chlorine Ion in Cosmetics

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

1. Overview

The test sample is titrated with 0.1mol/L silver nitrate solution up to the endpoint, which is the maximum inflexion on the titration curve. Concentration of chlorine ion is calculated from the titration volume of silver nitrate.

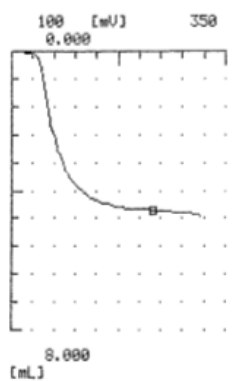
2. Apparatus

| | |
|-----------|--|
| Main unit | Automatic potentiometric titrator (preamplifier STD) |
| Electrode | Combined silver electrode |

3. Reagents

| | |
|---------|-------------------------|
| Titrant | 0.1mol/L silver nitrate |
| Solvent | Pure water |

4. Example



—Titration curve—

—Measurement results—

| | Sample (mL) | Titer (mL) | Chlorine ion (%) |
|---------|----------------|---------------|---------------------|
| 1 | 2.0015 | 4.5689 | 0.8152 |
| 2 | 2.0030 | 4.5705 | 0.8149 |
| Average | | | 0.8151 |

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 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
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