

TIE-00109enL

Application Memo

Distearate Dimethyl Ammonium Chloride in Hair Conditioner

Industry Cosmetics soap

Instrument Automatic potentiometric titrator

Measurement method Colloidal titration

Standards

1. Overview

Colloidal titration utilizes the quantitative reaction of anionic and cationic surfactant, which forms a nonionic surfactant complex. The endpoint is determined at the sudden change of streaming potential, so no indicator is necessary.

After adding 0.0005mol/L polyvinyl potassium sulfate (PVSK) to the diluted sample, it is back titrated with 0.0005mol/L chitosan methyl glycol. The concentration of distearate dimethyl ammonium chloride in the sample is calculated from the titration volume at the endpoint.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Particle changer detector unit (PCD-500)

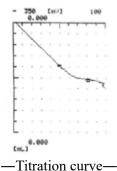
3. Reagents

Titrant 0.0005mol/L chitosan methyl glycol

Solvent Pure water

Additive 0.0005mol/L polyvinyl potassium sulfate (PVSK)

4. Example



—Measurement results—			
	Sample	Titer	Concentration
	(g)	(mL)	(%)
1	1.1610	4.1761	1.5344
2	1.1610	4.1467	1.6085
3	1.1610	4.1295	1.6519
Average			1.5982
SD			0.0594
RSD(%)			3.72

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