

Application Memo

Content of surfactant

Industry	Organic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration

1. Overview

After adding 0.004mol/L benzethonium chloride to the diluted sample and stirring, it is titrated with 0.004mol/L sodium lauryl sulfate solution by using the particle changer detector unit (PCD-500). The surfactant concentration in the sample is calculated from the titration volume at the endpoint. The concentration was close to the result obtained by Epton method.

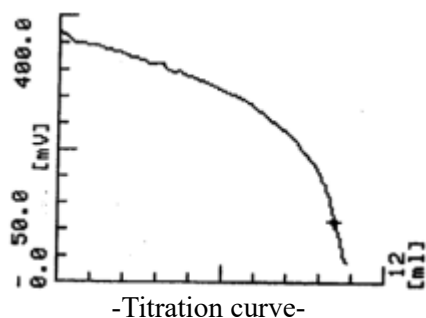
2. Apparatus

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

Titrant	0.004mol/L sodium lauryl sulfate solution
Solvent	Distilled water
Reagent	0.004mol/L benzethonium chloride

4. Example



-Measurement results-			
	Sample (g)	Titer (mL)	Conc. (%)
1		10.2634	19.33
2	1.7559	10.3028	19.18
3		10.2314	19.46
Average			19.32
SD			0.14
RSD(%)			0.72

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