

Application Memo

Chlorine in Detergents

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

1. Overview

Chlorine in detergents is measured by potentiometric titration with 0.01mol/L silver nitrate solution after adding acetone to the sample. The titration goes up to the endpoint, which is the maximum inflexion on the titration curve.

The chlorine concentration of is calculated from the titration volume of silver nitrate.

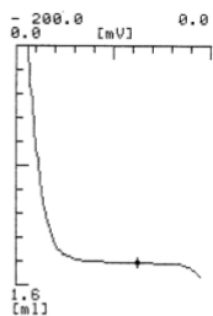
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode Mercury sulfate reference electrode

3. Reagents

Titrant	0.01mol/L silver nitrate solution
Additive	Acetone

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Chlorine (ppm)
1	11.6324	1.4594	44.538
2	11.6313	1.4990	45.751
3	11.6447	1.4872	45.339
Average			45.209
SD			0.617
RSD(%)			1.36

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