

## Application Memo

# Chloride in Dyestuff

Industry	Paint, Adhesive
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

## 1. Overview

After adding 0.01mol/L sodium chloride solution to the diluted sample, chloride ion (Cl<sup>-</sup>) in dyestuff is measured by potentiometric titration with the 0.01mol/L silver nitrate solution. The endpoint is determined by the maximum inflexion point on the titration curve. The chloride ion concentration is calculated from the titration volume of silver nitrate titrant. The added sodium chloride is subtracted from the result.

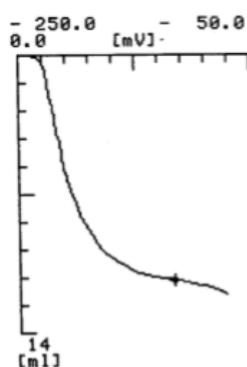
## 2. Apparatus

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

## 3. Reagents

Titrant	0.01mol/L silver nitrate solution
Solvent	Pure water
Additive	0.01mol/L sodium chloride solution

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Chloride (ppm)
1	0.4987	11.4138	444.1
2	0.4890	11.3892	435.0
3	0.5039	11.4201	443.9
Average			441.0
SD			5.2
RSD(%)			1.2

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