

Application Memo

Chlorine Ion in Kent Water

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

1. Overview

The chlorine ion concentration in Kent water is measured as follows. The test sample added with water and nitric acid solution is titrated with 0.01mol/L silver nitrate solution up to the endpoint. The endpoint is the maximum inflexion on the titration curve. The concentration of chlorine ion is calculated from the titration volume of silver nitrate.

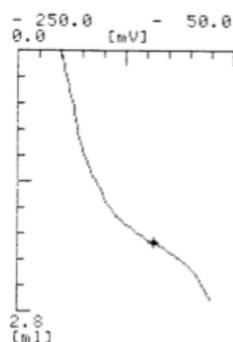
2. Apparatus

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

3. Reagents

Titrant	0.01mol/L silver nitrate solution
Additive	Nitric acid solution
Solvent	Pure water

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Chlorine ion (%)
1	10.0431	2.0717	0.00731
2	10.0505	2.0735	0.00732
3	10.0343	2.0979	0.00741
Average			0.00735
SD			0.00006
RSD(%)			0.7

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