

## Application Memo

# Chlorine Ion of Ground Water

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

## 1. Overview

Chlorine ion of ground water is measured by potentiometric titration with a 0.005mol/L silver nitrate solution after the test sample is added with pure water and nitric acid. The endpoint is the maximum inflexion on the titration curve. Chlorine ion concentration is calculated from the titration volume of silver nitrate.

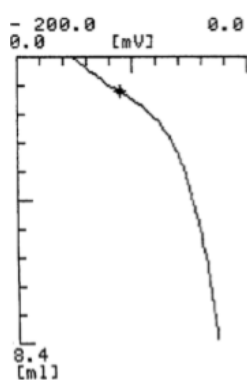
## 2. Apparatus

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

## 3. Reagents

Titrant	0.005mol/L silver nitrate solution
Additive	Pure water, Nitric acid solution

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Chlorine ion (ppm)
1	20.0237	1.0532	9.3256
2	20.2098	1.1078	9.7187
3	20.0501	1.0594	9.3681
Average			9.4708
SD			0.2157
RSD(%)			2.277

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