

Application Memo

Chlorine Ion of Tap Water

Industry	Environmental
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

1. Overview

Chlorine ion of tap water is measured by potentiometric titration with 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 titration curve.

Chlorine ion concentration is calculated from titration volume of silver nitrate.

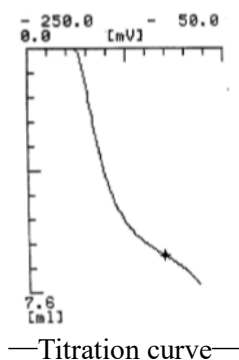
2. Apparatus

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

3. Reagents

Titrant	0.005mol/L silver nitrate solution (f = 1.00)
Solvent	Pure water, Nitric acid solution

4. Example



—Measurement results—			
	Sample (g)	Titer (mL)	Chlorine ion (ppm)
1	0.5354	6.5252	2161
2	0.5078	6.1935	2163
3	0.5047	6.1636	2165
Average			2163
SD			2
RSD(%)			0.1

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