

Application Memo

Chloride Ion Measurement in Sodium Chloride Solution

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

1. Overview

After adding acetone and nitric acid to the sample of low concentration sodium chloride solution, chloride ion is measured by titration with 0.004mol/L silver nitrate solution. The endpoint is the maximum inflexion on the titration curve. The chloride ion concentration is calculated from the titration volume of the silver nitrate solution.

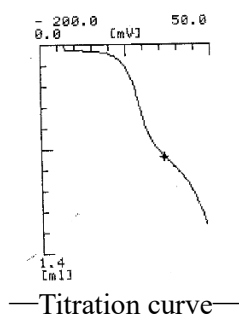
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode pH glass electrode

3. Reagents

Titrant	0.0004mol/L AgNO ₃
Solvent	Acetone
Additive	Nitric acid

4. Example



—Measurement results—

	Sample (g)	Titer (mL)	Conc. (ppm)
1	10.0060	0.7581	1.327
2	10.0295	0.8042	1.405
3	10.0120	0.8006	1.401
Average			1.378
SD			0.044
RSD(%)			3.2

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