

## Application Memo

# Determination of a Micro Amount of Chloride Ion in Organic Solvent

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

## 1. Overview

After adding Methoxy-2-propanone and nitric acid to the sample, chloride ion concentration is measured by titration with 0.01mol/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.

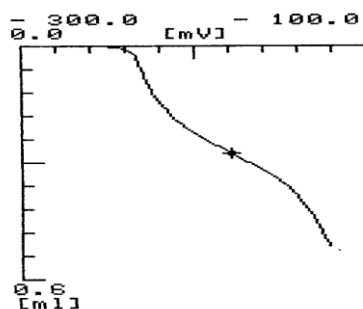
## 2. Apparatus

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

## 3. Reagents

Titrant	0.01mol/L AgNO <sub>3</sub>
Solvent	Methoxy-2-propanone, Nitric acid

## 4. Example



—Titration curve—

—Measurement results—

	Sample size (g)	Titer (mL)	Concentration (ppm)
1	20.0167	0.2739	2.822
2	20.0085	0.2586	2.551
3	20.0032	0.2781	2.898
Average			2.757
SD			0.182
RSD(%)			6.61

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