

## Application Memo

# Quantitative Determination of Sulfuric Acid Ion in Plating Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Oxidation-reduction titration
Standards	

## 1. Overview

Sulfuric acid ion of the diluted sample is measured by titration with 1mol/L sodium hydroxide solution. The endpoint is the first maximum inflexion on the titration curve. The sulfuric acid ion is calculated from the titration volume of the sodium hydroxide.

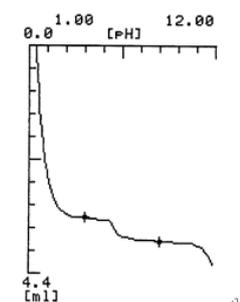
## 2. Apparatus

Main unit	Potentiometric automatic titrator (preamplifier STD)
Electrode	pH glass electrode Double junction reference electrode Temperature compensation electrode

## 3. Reagents

Titrant	1mol/L sodium hydroxide solution
Solvent	Water

## 4. Example



—Measurement results—			
	Sample Size (mL)	Titer (mL)	Concentration (g/L)
1	1.0	3.3402	160.4
2	1.0	3.3663	161.7
3	1.0	3.3603	161.4
Average			161.2
SD			0.7
RSD(%)			0.4

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