

## Application Memo

# Sulfuric Acid in Pickling Agent

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

## 1. Overview

After adding a sodium fluoride solution as a masking reagent to the diluted sample, sulfuric acid concentration is measured by titration with 1mol/L sodium hydroxide solution. The endpoint is the maximum inflexion on the titration curve. The sulfuric acid concentration is calculated from the titration volume of the sodium hydroxide solution.

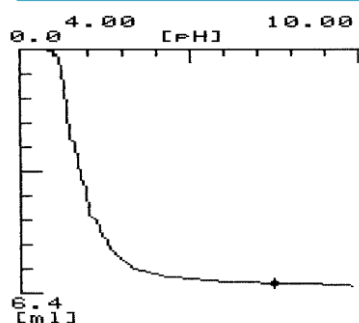
## 2. Apparatus

Main unit	Automatic potentiometric titrator
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

## 3. Reagents

Titrant	1mol/L NaOH
Solvent	Water

## 4. Example



—Measurement results—

	Sample size (mL)	Titer (mL)	Concentration (%)
1	5.0	6.1510	6.028
2	5.0	6.1525	6.030
3	5.0	6.1515	6.029
Average			6.029
SD			0.001
RSD(%)			0.01

—Titration curve—

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 <Contact>Kyoto Electronics Manufacturing Co., Ltd.  
 Overseas Sales & Marketing Sect.  
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