

Application Memo

Quantification of Sulfuric Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

Sulfuric acid is measured by titration with 0.5mol/L sodium hydroxide up to the endpoint, which is the maximum inflexion on the titration curve. The concentration of sulfuric acid is calculated from the titration volume of sodium hydroxide.

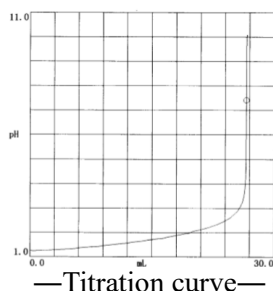
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.5mol/L sodium hydroxide solution
Solvent	Pure water

4. Example



—Measurement results—

	Sample (g)	Titer (mL)	Sulfuric acid (%)
1	1.0475	26.6122	62.511
2	1.0320	26.2115	62.494
3	1.0045	25.5113	62.490
Average			62.498
SD			0.011
RSD(%)			0.018

Please feel free to contact us for any further information.
 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
<http://www.kyoto-kem.com/en/contact/form.php>