

Application Memo

Quantification of Sulfuric Acid

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

1. Overview

After test sample of sulfuric acid is transferred to a beaker with pure water and cooled to room temperature, titrate the sample 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.

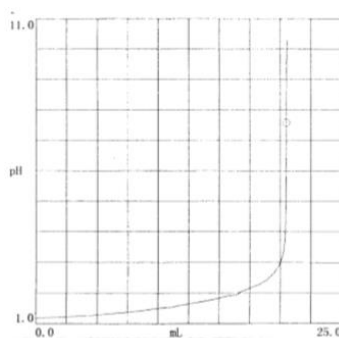
2. Apparatus

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



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Sulfuric acid (%)
1	0.5135	20.4765	97.78
2	0.5112	20.3905	97.80
3	0.5094	20.3221	97.82
4	0.5076	20.2579	97.86
Average			97.82
SD			0.03
RSD(%)			0.03

Please feel free to contact us for any further information.
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