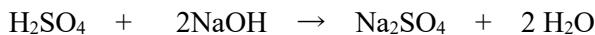


## Application Memo Concentration of Sulfuric Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	ISO6353-2

### 1. Overview

According to ISO 6353-2: 1983 Reagents for chemical analysis-Part2: Specifications -- First series, sulfuric acid diluted to 0.25mol/L is titrated with 0.1mol/L sodium hydroxide up to the endpoint, which is the maximum inflection on the titration curve. The concentration of sulfuric acid solution is calculated from the titration volume.



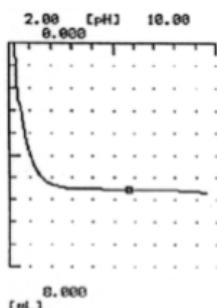
### 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined glass electrode
	Temperature compensation electrode

### 3. Reagents

Titrant	0.1 mol/L sodium hydroxide
Solvent	Pure water

### 4. Example



—Titration curve—

—Measurement results—			
	Sample (mL)	Titer (mL)	H <sub>2</sub> SO <sub>4</sub> (mol/L)
1	10.0	5.2336	0.2494
2	10.0	5.2052	0.2480
3	10.0	5.3057	0.2528
Average			0.2501
SD			0.0025
RSD(%)			0.99

Please feel free to contact us for any further information.

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