

Application Memo

Sulfuric Acid in Etching Solution

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

1. Overview

Sulfuric acid in etchant is measured by titration with 1mol/L sodium hydroxide after the sample is added with pure water. Titration goes up to the endpoint which is the maximum inflexion on the titration curve.
Concentration of sulfuric acid is calculated from the titration volume of sodium hydroxide.

2. Apparatus

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

3. Reagents

Titrant	1mol/L sodium hydroxide solution
Solvent	Pure water

4. Example



—Measurement results—

	Sample (mL)	Titer (mL)	Sulfuric acid (g/L)
1	2.0	9.0650	222.3
2	2.0	9.0737	222.5
3	2.0	9.0451	221.8
Average			222.2
SD			0.4
RSD(%)			0.2

Please feel free to contact us for any further information.
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