KYOTO ELECTRONICS MANUFACTURING CO., LTD.

TIQ-97011enL

Application Memo Hydrochloric Acid of Etching Solution

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

1. Overview

Hydrochloric acid in etchant is measured by titration with 1mol/L sodium hydroxide after the sample is diluted with pure water. The endpoint is the maximum inflexion on the titration curve. The hydrochloric acid concentration 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	1mo1/L sodium hydroxide
Solvent	Pure water

4. Example

рН 9.80	—Measurement results—				
9. 60		Sample	Titer	HCl	
		(g)	(mL)	(%)	
	1	1.4459	9.4077	23.749	
	2	1.4327	9.3326	23.776	
	3	1.4178	9.2432	23.796	
	Average			23.774	
1.80	SD			0.024	
0:00 16.00 ml	RSD(%)			0.099	
—Titration curve—	``´´´				

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