

Application Memo

Hydrochloric Acid in Acidic Cleaning Agent

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration

1. Overview

The diluted sample is titrated with 1mol/L sodium hydroxide. The endpoint is the maximum inflexion on the titration curve. The hydrochloric acid concentration is calculated from the titration volume of the sodium hydroxide solution.

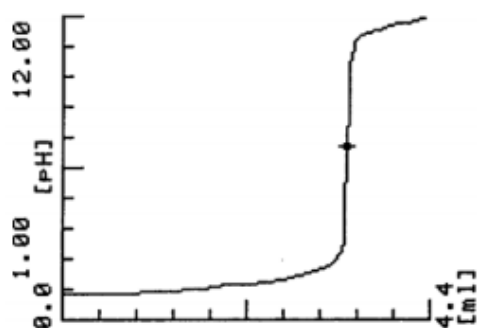
2. Apparatus

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

3. Reagents

Titrant	1mol/L sodium hydroxide solution
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4. Example



-Measurement results-			
	Sample (g)	Titer (mL)	Concentration. (%)
1	1.0	3.4274	12.5
2	1.0	3.4577	12.6
3	1.0	3.4023	12.4
Average			12.5
SD			0.1
RSD(%)			0.8

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<Contact> Kyoto Electronics Manufacturing Co., Ltd.

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