

## Application Memo

# Hydrochloric Acid in Etchant

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

### 1. Overview

The diluted sample is titrated with the 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.

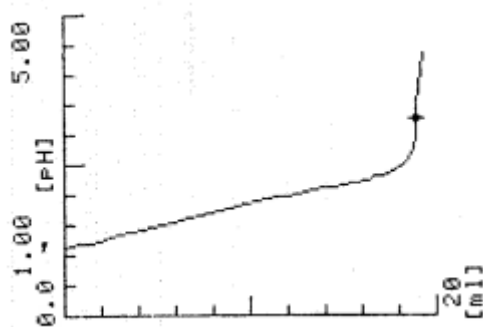
### 2. Apparatus

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

### 3. Reagents

Titrant	1mol/L sodium hydroxide solution
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### 4. Example



-Titration curve-

-Measurement results-

	Sample (g)	Titer (mL)	Concentration (%)
1	3.0007	19.0306	23.148
2	3.0190	19.0485	23.030
3	3.0077	19.0506	23.119
Average			23.099
SD			0.062
RSD(%)			0.27

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