

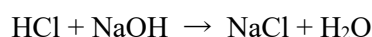
Application Memo

Concentration of Hydrochloric Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	JIS K 8180

1. Overview

According to JIS K 8180-2015 and ISO 6353-2: 1983, titrate hydrochloric acid diluted to 0.1mol/L with 0.1mol/L sodium hydroxide up to the endpoint. The endpoint is the maximum inflexion on the titration curve. The concentration of hydrochloric acid is calculated from titration volume of sodium hydroxide.



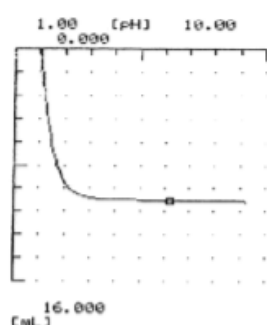
2. Apparatus

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 (g)	Titer (mL)	Hydrochloric acid (mol/L)
1	10.00	10.4333	0.0994
2	10.00	10.4361	0.0995
3	10.00	10.4422	0.0995
Average			0.0994
SD			0.0002
RSD(%)			0.2

Please feel free to contact us for any further information.
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