

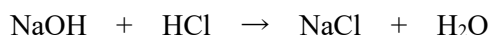
Application Memo

Concentration of Sodium Hydroxide

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	ISO 6353-2

1. Overview

According to ISO 6353-2: 1983 Reagents for chemical analysis-Part2: Specifications -- First series, sodium hydroxide dissolved in pure water (1mol/L NaOH) is titrated with 1mol/L hydrochloric acid up to the endpoint, which is the maximum inflexion on the titration curve. The concentration of sodium hydroxide solution is calculated from the titration volume.



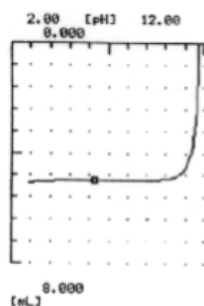
2. Apparatus

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

3. Reagents

Titrant	1mol/L hydrochloric acid solution
Solvent	Pure water

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	NaOH (mol/L)
1	5.0	5.0009	0.9961
2	5.0	4.9475	0.9854
3	5.0	4.9761	0.9911
Average			0.9909
SD			0.0054
RSD(%)			0.54

Please feel free to contact us for any further information.
 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
<http://www.kyoto-kem.com/en/contact/form.php>