

Application Memo

Alkalinity of Tap Water

Industry	Environmental
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

Alkalinity of tap water is measured by titration with 0.01mol/L sulfuric acid after adding 0.1mol/L sodium thiosulfate to the sample up to pH8.3 and pH4.8. The alkalinity is calculated from the titration volume of sulfuric acid.

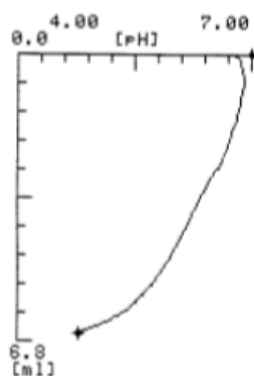
2. Apparatus

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

3. Reagents

Titrant	0.01mol/L (0.02N) sulfuric acid
Additive	0.1mol/L sodium thiosulfate

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Concentration (mg/L)
1	100.0	6.6172	66.17
2	100.0	6.6195	66.20
3	100.0	6.6283	66.28
Average			66.22
SD			0.059
RSD(%)			0.088

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>