

Application Memo

Acidity of Tap Water

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

1. Overview

Acidity of tap water is measured by titration with 0.02mol/L sodium hydroxide after adding 0.1mol/L sodium thiosulfate to the sample is up to pH4.8 and pH8.3. The acidity is calculated from the titration volume of sodium hydroxide.

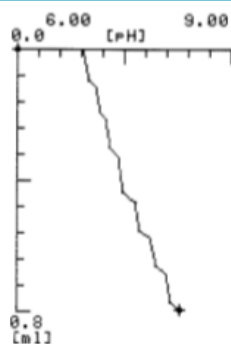
2. Apparatus

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

3. Reagents

Titrant	0.02mol/L sodium hydroxide
Additive	0.1mol/L sodium thiosulfate

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Concentration (mg/L)
1	100.0	0.8088	8.088
2	100.0	0.7760	7.760
3	100.0	0.7998	7.998
Average			7.949
SD			0.170
RSD(%)			2.13

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