

Application Memo

Concentration of Hypochlorite

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

1. Overview

Sodium hypochlorite is measured by titration of free iodine with 0.1mol/L sodium thiosulfate after adding the sodium thiosulfate solution, potassium iodide and sulfuric acid to the sample liquid, and leaving the mixture in a dark room. The endpoint is the maximum inflexion on the titration curve. Concentration of sodium hypochlorite is calculated from the titration volume of the sodium thiosulfate solution.

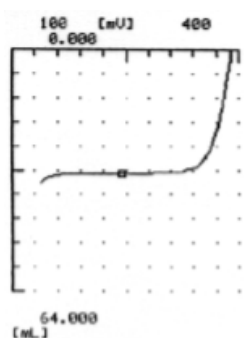
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined platinum electrode

3. Reagents

Titrant	0.1mol/L sodium thiosulfate
Solvent	Pure water
Additive	Potassium iodide, 3mol/L sulfuric acid

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Sodium hypochlorite (g/L)
1	1.0	32.8718	121.50
2	1.0	33.2743	122.99
3	1.0	32.8951	121.59
Average			122.03
SD			0.84
RSD(%)			0.68

Please feel free to contact us for any further information.
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