

Application Memo

Available Chlorine in 13% Sodium Hypochlorite (NaClO)

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Oxidation-reduction titration
Standards	

1. Overview

After adding 10% potassium iodine, hydrochloric acid (1+3) and distilled water to the sample, available chlorine is measured by titration with 0.1mol/L sodium thiosulfate solution. The endpoint is the maximum inflexion on the titration curve. The available chlorine concentration is calculated from the titration volume of the sodium thiosulfate solution.

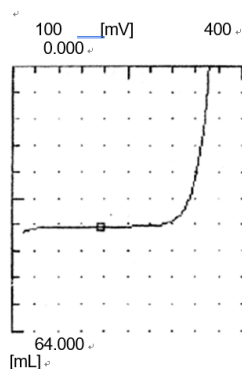
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium thiosulfate solution
Solvent	Distilled water, 10% potassium iodine, Hydrochloric acid (1+3)

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Available chlorine (%)
1	1.0170	38.9030	13.643
2	1.0020	38.3089	13.636
3	1.0084	38.5544	13.636
Average			13.638
SD			0.0040
RSD(%)			0.030

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