

TIQ-99435enL

### **Application Memo**

# **Total Chlorine in 13% Sodium Hypochlorite (NaClO)**

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Precipitation titration

Standards

#### 1. Overview

Add 3% hydrogen peroxide to the sample until no more bubbles are generated. After adding distilled water and phenolphthalein solution, neutralize by adding nitric acid until the color of phenolphthalein disappears. Total chlorine is measured by titration with 0.1mol/L silver nitrate solution. The endpoint is the maximum inflexion on the titration curve. The total chlorine concentration is calculated from the titration volume of the silver nitrate solution.

#### 2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Combined silver electrode

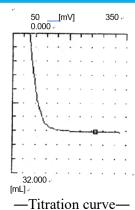
## 3. Reagents

Titrant 0.1mol/L silver nitrate solution

Solvent Distilled water, 3% hydrogen peroxide,

1% phenolphthalein solution, 0.1mol/L nitric acid

# 4. Example



—Measurement results—			
	Sample	Titer	Total chlorine
	(g)	(mL)	(%)
1	1.0194	22.5449	7.8894
2	1.0128	22.4368	7.9027
3	1.0159	22.4683	7.8896
Average			7.8939
SD			0.0076
RSD(%)			0.097

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