

Application Memo

Measurement of Low Concentration Sodium Chloride Solution

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

1. Overview

Using the prepared 1 w/w% NaCl as a sample, titration was performed with 0.01 mol/L silver nitrate, and the maximum inflection point in potentiometric titration was determined as the end point. Then, the concentration was determined by converting the titer of 0.01 mol/L silver nitrate up to the end point into salt content.

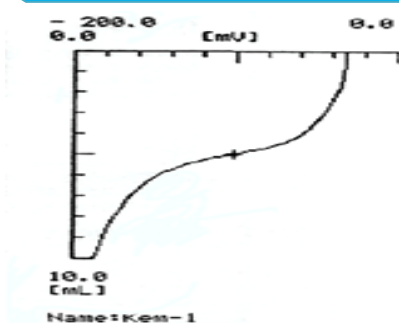
2. Apparatus

Main unit	Automatic potentiometric titrator
Electrode	Combined silver electrode

3. Reagents

Titrant	0.01 mol/L silver nitrate
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4. Example



—Titration curve—

—Measurement results—

	Sample size (g)	Titer (mL)	Concentration (w/w%)
1	0.2916	5.0945	1.019
2	0.2883	5.0095	1.013
3	0.2930	5.0775	1.011
Average			1.014
SD			0.004
RSD(%)			0.4

Please feel free to contact us for any further information.
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