

Application Memo

Chlorine Ion of Calcium Hydroxide

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

1. Overview

The chlorine ion concentration of calcium hydroxide is measured by titration of a water diluted sample. First, the sample is added with 0.005mol/L sodium chloride and nitric acid solution, and then titrated with 0.005mol/L silver nitrate solution up to the endpoint. The endpoint is the maximum inflexion on the titration curve. The concentration of chlorine ion is calculated from the titration volume of silver nitrate.

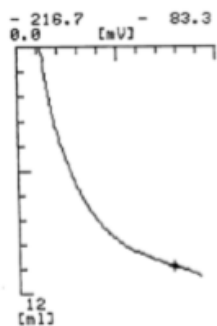
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode Mercury sulfate reference electrode

3. Reagents

Titrant	0.005mol/L Silver nitrate solution
Additive	0.005mol/L sodium chloride, Nitric acid solution

4. Example



—Titration curve—

—Measurement results—			
	Sample (g)	Titer (mL)	Chlorine ion (ppm)
1	2.0	10.7460	4968
2	2.0	10.7444	4966
3	2.0	10.7857	5003
Average			4979
SD			21
RSD(%)			0.42

Please feel free to contact us for any further information.
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