

## Application Memo

# Calcium Oxide in Alkaline Solution

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

### 1. Overview

Calcium oxide in alkaline solution is measured first by preparing a homogeneously stirred test sample and adding potassium hydroxide and triethanolamine. Then, add EDTA precisely and titrate with 0.025mol/L calcium chloride. The endpoint is obtained by the color change of the indicator on the titration curve.

The calcium oxide is calculated from the titration volume of calcium chloride.

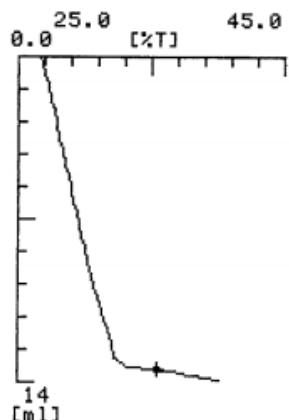
### 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Photometric sensor Interference filter (530nm)

### 3. Reagents

Titrant	0.025 mol/L calcium chloride
Solvent	Pure water
Indicator	Carcin indicator
Additive	5 mol/L potassium hydroxide 0.05mol/L EDTA, 200g/L triethanolamine

### 4. Example



-Titration curve-

Please feel free to contact us for any further information.

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