

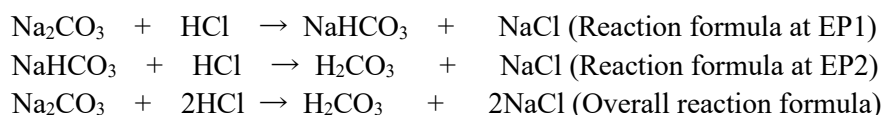
## Application Memo

# Purity of Sodium Carbonate

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	JIS K 8625, ISO6353-2

## 1. Overview

Purity of Sodium carbonate is determined according to JIS K 8625-2017 Sodium carbonate and ISO 6353-2: 1983 Reagents for chemical analysis-Part2 : Specifications -- First series. The heat dried test sample is diluted with pure water, and titrated with 1mol/L hydrochloric acid up to the second endpoint passing EP1. The purity of sodium carbonate is calculated from the titration volume. The second endpoint is the second inflexion on the titration curve.



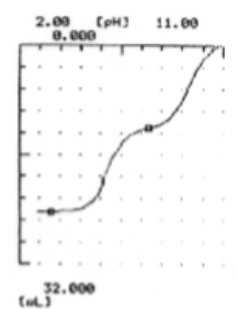
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier: STD)
Electrode	Combined glass electrode Temperature compensation electrode

## 3. Reagents

Titrant	1 mol/L sodium hydroxide
Solvent	Pure water

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titration up to EP2 (mL)	Sodium carbonate (%)
1	1.2898	24.3092	99.462
2	1.2742	24.0696	99.688
3	1.2900	24.2882	99.361
Average			99.504
SD			0.167
RSD(%)			0.168

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