

TIZ-99073enL

Application Memo

Determination of Hydrochloric Acid Concentration

Industry Inorganic chemical industry

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards

1. Overview

The concentration of 0.1mol/L hydrochloric acid solution is examined by titration with 1mol/L sodium hydroxide solution. The endpoint is the maximum inflexion on the titration curve. The hydrochloric acid concentration is calculated from the titration volume of the sodium hydroxide solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH glass electrode

Ceramic reference electrode

Temperature compensation electrode

3. Reagents

Titrant 0.1 mol/L sodium hydroxide

Additive: Pure water

4. Example



—Measurement results—			
	Sample	Titer	Concentration
	(mL)	(mL)	(mol/L)
1		10.1384	0.1020
2	10	10.1155	0.1018
3		10.0817	0.1014
Average			0.1017
SD			0.0003
RSD(%)			0.3

Please feel free to contact us for any further information.

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⁻Titration curve-