

Application Memo

Quantification of Nitric Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

Nitric acid is measured by titration of a diluted sample with 1mol/L sodium hydroxide up to the endpoint, which is the maximum inflexion on the titration curve.

The concentration of nitric acid is calculated from the titration volume of sodium hydroxide.

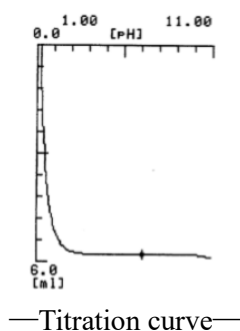
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

3. Reagents

Titrant	1 mol/L sodium hydroxide
Solvent	Pure water

4. Example



—Measurement results—			
	Sample (g)	Titer (mL)	Nitric acid (%)
1	0.5388	5.8240	68.10
2	0.5304	5.7286	68.04
3	0.5331	5.7506	67.96
Average			68.03
SD			0.07
RSD(%)			0.1

Please feel free to contact us for any further information.

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