

TIQ-98034enL

Application Memo Nitric acid in Pickling Agent

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Neutralization titration

Standards

1. Overview

After adding a sodium fluoride solution as a masking reagent to the diluted sample, nitric acid concentration is measured by titration with 1mol/L sodium hydride solution. The endpoint is the maximum inflexion on the titration curve. The nitric acid concentration is calculated from the titration volume of the sodium hydride solution.

2. Apparatus

Electrode pH glass electrode

Ceramic reference electrode

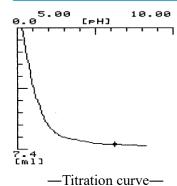
Temperature compensation electrode

3. Reagents

Titrant 1mol/L NaOH

Solvent Water

4. Example



-Measurement results-

| | Sample size (mL) | Titer (mL) | Concentration (%)) |
|---------|------------------|---------------|--------------------|
| 1 | 5.0 | 7.1377 | 8.994 |
| 2 | 5.0 | 7.1594 | 9.021 |
| 3 | 5.0 | 7.1578 | 9.019 |
| Average | | | 9.011 |
| SD | | | 0.015 |
| RSD(%) | | | 0.17 |

Please feel free to contact us for any further information.

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