KYOTO ELECTRONICS MANUFACTURING CO., LTD.

TIO-94005enL

Application Memo Free Nitric Acid Concentration in Desmutting Solution

IndustryNon-ferrous metalInstrumentAutomatic potentiometric titratorMeasurement methodAcid-base titrationStandardsStandards

1. Overview

After adding10W/V% potassium fluoride to the diluted sample, it is titrated with 1mol/L sodium hydroxide solution. The endpoint is the maximum inflexion on the titration curve. The free nitric acid concentration is calculated from the titration volume of the sodium hydroxide solution.

2. Apparatus

Main unitAutomatic potentiometric titrator (preamplifier STD)ElectrodepH glass electrode

Ceramic reference electrode

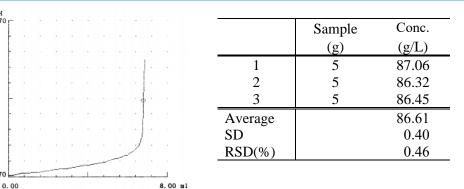
3. Reagents

Titrant	1mol/L sodium hydroxide solution
Reference	Pure water
Reagents	10W/V% potassium fluoride

4. Example

рН 12.70 г

4.70



-Titration curve-

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