

TIQ-99276enL

Application Memo

Quantification of Diammonium Cerium (IV) Nitrate

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Redox titration

Standards

1. Overview

The test sample is added with dilute sulfuric acid and ferroin indicator, and titrated with 0.1 mol/L diammonium ferric sulfate solution up to the endpoint, which is the maximum inflexion on the titration curve. The concentration of diammonium cerium (IV) nitrate is calculated from the titration volume of the diammonium ferric sulfate solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Platinum electrode

Double junction reference electrode

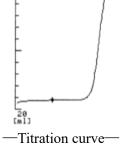
3. Reagents

Titrant 0.1mol/L diammonium ferric sulfate

Solvent Pure water

Additive Sulfuric acid, Ferroin indicator

4. Example



—Measurement results—			
	Sample	Titer	Concentration
	(g)	(mL)	(%)
1	2.0057	18.5321	51.00
2	2.0122	18.5951	51.02
3	2.0111	18.5479	50.91
Average			50.98
SD			0.06
RSD(%)			0.1

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