

TIQ-99006enL

Application Memo

Total Nickel Content in Nickel Plating Solution

Industry Inorganic chemical industry

Instrument Automatic potentiometric titrator

Measurement method Chelatometric titration

Standards

1. Overview

After adding ammonia water, triethanolamine solution, and the indicator solution to the diluted sample, it is titrated with 0.01mol/L EDTA solution. The endpoint is found at the maximum point of inflection. The nickel concentration is calculated from the titration volume of the EDTA solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier PTA)

Electrode Photometric sensor

Interference filter (630nm)

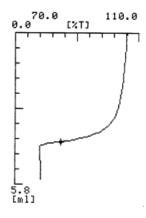
3. Reagents

Titrant 0.01mol /L EDTA solution

Additive Pure water, Ammonia water, Triethanolamine

Indicator Murexide powder mixture (0.02g Murexide and 10g Potassium sulfate)

4. Example



—Measurement results—			
	Sample size	Titer	Concentration
	(mL)	(mL)	(g/L)
1	5.0	4.1860	49.15
2	5.0	4.1886	49.18
3	5.0	4.1886	49.18
Average			49.17
SD			0.02
RSD(%)			0.04

—Titration curve—

Please feel free to contact us for any further information.

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