

TIQ-97013enL

Application Memo Copper in Etchant

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Chelatometric titration

Standards

1. Overview

Copper in etchant is measured by titration with 0.05mol/L EDTA after adding pure water, ethanol, ammonia water and PAN indicator to the sample. The endpoint is determined by inflexion on the titration curve where the color of indicator changes. The copper concentration is calculated from the titration volume of EDTA.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier: PTA)

Electrode Photometric sensor

Interference filter (530 nm)

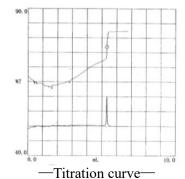
3. Reagents

Titrant 0.05mol/L EDTA

Solvent Pure water

Additive Ammonia water, Ethanol Indicator PAN indicator (0.1% Ethanol)

4. Example



—Measurement results—			
	Sample	Titer	Copper
	(mL)	(mL)	(g/L)
1	1.0	5.3133	16.88
2	1.0	5.3552	17.02
3	1.0	5.3305	16.94
Average			16.95
SD			0.07
RSD(%)			0.39

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