

Application Memo

Iron Concentration in Etchant

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Chelatometric titration
Standards	

1. Overview

After adding 2% sulfosalicylic acid to the diluted sample, it is titrated with 0.1mol/L EDTA solution. The endpoint is the maximum inflexion on the titration curve. The iron concentration is calculated from the titration volume of the sulfosalicylic acid solution.

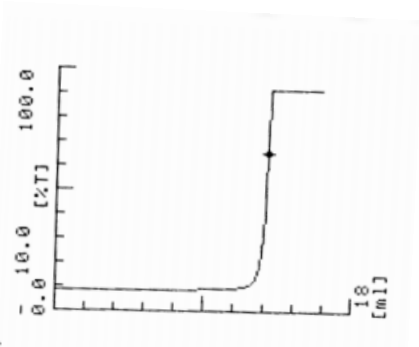
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Photometric sensor Interference filter (530nm)

3. Reagents

Titrant	0.1 mol/L EDTA
Additive	2% sulfosalicylic acid

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Concentration (%)
1	0.5983	12.8872	6.408
2	0.5068	11.1148	6.426
3	0.4920	10.7815	6.421
Average			6.418
SD			0.009
RSD(%)			0.1

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