

## Application Memo Determination of Iron (II) Ion in Pickling Solution

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

### 1. Overview

After adding 2% sulfosalicylic acid and distilled water to the sample, iron (II) ion is measured by titration with 0.1mol/L EDTA. The endpoint is the maximum inflection on the titration curve. The iron (II) ion concentration is calculated from the titration volume of the EDTA.

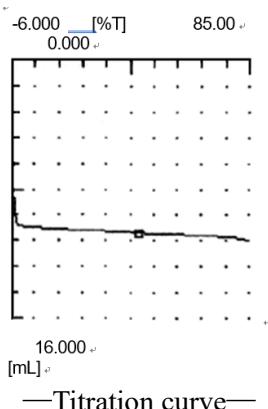
### 2. Apparatus

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

### 3. Reagents

Titrant	0.1mol/L ethylenediaminetetraacetic dihydrogen disodium (EDTA) solution
Solvent	Distilled water, 2% sulfosalicylic acid

### 4. Example



—Measurement results—			
	Sample (g)	Titer (mL)	Concentration (%)
1	0.5042	10.7310	11.95
2	0.5033	10.7080	11.94
3	0.5037	10.7215	11.95
Average			11.95
SD			0.00
RSD(%)			0.02

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