

Application Memo**Determination of Magnesium Sulfate Concentration**

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

1. Overview

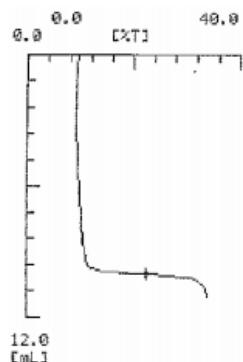
The concentration of 0.01mol/L magnesium sulfate solution is examined. After adding the buffer solution and the indicator to the diluted sample, it is titrated with 0.01mol/L EDTA solution. The endpoint is the maximum inflection on the titration curve. The magnesium sulfate concentration is calculated from the titration volume of the EDTA solution.

2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Potentiometric sensor Interference filter (630nm)

3. Reagents

Titrant	0.01mol/L EDTA
Additive	EBT indicator Buffer solution (pH10)

4. Example

-Titration curve-

—Measurement results—			
	Sample (mL)	Titrer (mL)	Concentration (mol/L)
1		10.0710	0.01007
2	10	10.0739	0.01007
3		10.0788	0.01008
Average			0.01007
SD			0.00001
RSD(%)			0.05

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