

Application Memo

Factor of 0.1mol/L Silver Nitrate

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	JIS K 8001, ISO 6353-1

1. Overview

Factor measurement of 0.1mol/L silver nitrate solution is specified by JIS K 8001-2017 “General rules for test methods of reagents”.

Titrate sodium chloride as reference substance for volumetric analysis with 0.1mol/L silver nitrate up to the endpoint, which is the maximum inflexion on the titration curve.

The factor of the 0.1mol/L silver nitrate solution is calculated from the titration volume of silver nitrate.

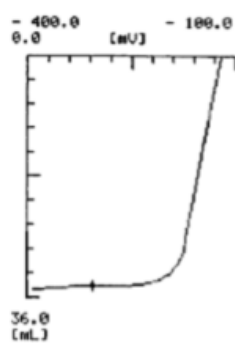
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined silver electrode

3. Reagents

Titrant	0.1mol/L silver nitrate solution
Solvent	Pure water, Sodium chloride

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Factor
1	0.2051	35.1252	0.9992
2	0.2012	34.4434	0.9996
3	0.2007	34.5066	0.9953
Average			0.9980
SD			0.0024
RSD(%)			0.24

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