

## Application Memo

### Factor of Silver Nitrate

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	JIS K8001

#### 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”. The diluted sodium chloride is titrated with 0.1mol/L silver nitrate up to the endpoint, which is the maximum inflexion on the titration curve. The factor for standardization of 0.1mol/L silver nitrate solution is calculated from the titration volume of silver nitrate.

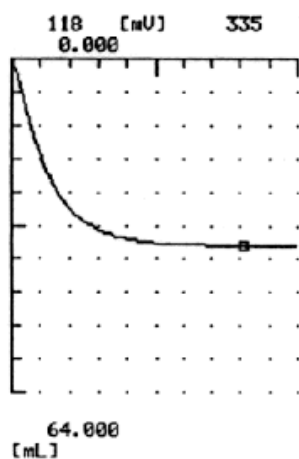
#### 2. Apparatus

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

#### 3. Reagents

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

#### 4. Example



-Titration curve-

-Measurement results-

	Sample (g)	Titer (mL)	Factor
1	0.2052	35.7333	0.9777
2	0.2003	34.6724	0.9836
3	0.2022	35.1150	0.9804
Average			0.9806
SD			0.0030
RSD(%)			0.30

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