

Application Memo

Factor of 0.1mol/L Sodium Hydroxide

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

1. Overview

Factor measurement of 0.1mol/L sodium hydroxide solution is specified by JIS K 8001-2017 “General rules for test methods of reagents”. The sulfuric amide solution is titrated with 0.1mol/L sodium hydroxide solution up to the endpoint, which is the maximum inflexion on the titration curve. The factor for standardization of 0.1mol/L sodium hydroxide is calculated from the titration volume of sodium hydroxide.

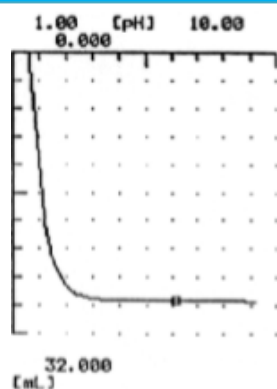
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined glass electrode Temperature compensation electrode

3. Reagents

Titrant	0.1 mol/L sodium hydroxide solution
Reference	Sulfuric amide

4. Example



—Measurement results—

	Sample (g)	Titer (mL)	Factor
1	0.2635	28.2117	0.9524
2	0.2681	28.7379	0.9513
3	0.2771	29.5733	0.9554
Average			0.9530
SD			0.0021
RSD(%)			0.22

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