

Application Memo

Factor of 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 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 1mol/L sodium hydroxide solution up to the endpoint, which is the maximum inflexion on the titration curve. The factor for standardization of 1mol/L sodium hydroxide is calculated from the titration volume of sodium hydroxide.

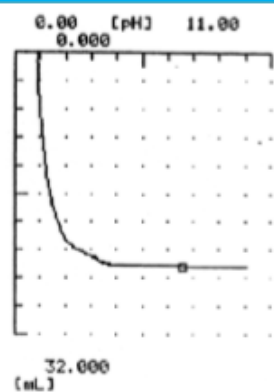
2. Apparatus

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

3. Reagents

Titrant	1 mol/L sodium hydroxide
Reference	Sulfuric amide

4. Example



—Titration curve—

—Measurement results—			
	Sample (g)	Titer (mL)	Factor
1	2.3160	24.4084	0.9675
2	2.3136	24.4135	0.9663
3	2.3048	24.2549	0.9689
Average			0.9676
SD			0.0013
RSD(%)			0.13

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