

Application Memo

Factor of 0.1mol/L Potassium Hydroxide in Ethanol

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	ISO 6353-2

1. Overview

Potassium hydroxide in ethanol is used for non-aqueous acid-base titration. 0.1 mol/L potassium hydroxide in ethanol solution is standardized as follow. 0.1 mol/L hydrochloric acid is titrated with 0.1 mol/L potassium hydroxide in ethanol as a titrant. The end point is the maximum inflection point of the titration curve. The factor of 0.1 mol/L potassium hydroxide in ethanol is calculated from its own titration volume at the endpoint.

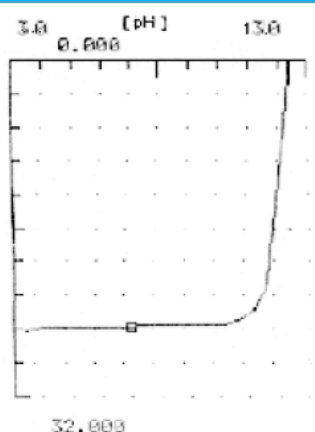
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L Potassium hydroxide in ethanol solution
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4. Example



-Titration curve-

-Measurement results-			
	Sample (mL)	Titer (mL)	Factor
1	25	25.2438	0.9993
2	25	25.2775	0.9979
3	25	25.2131	1.0005
Average			0.9992
SD			0.0013
RSD(%)			0.13

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