

Application Memo

Acid Number of Ethylene Glycol Monomethyl Ether Acetate

Industry	Organic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

The acid number of ethylene glycol monomethyl ether acetate is measured by titration with a 0.03mol/L potassium hydroxide (ethanol) solution after the sample is added with toluene and 2-propanol. The endpoint is determined by the maximum inflexion point on the titration curve. The acid number is calculated from the titration volume of potassium hydroxide.

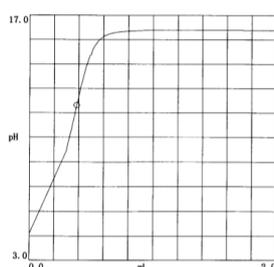
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Double junction reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.03mol/L potassium hydroxide (ethanol) solution
Solvent	2-propanol, Toluene

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Acid number (%)
1	15.0	0.5672	0.00209
2	15.0	0.5366	0.00171
3	15.0	0.6429	0.00303
Average			0.00228
SD			0.00068
RSD(%)			29

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