

Application Memo

Acid Number of Cosmetics

Industry	Cosmetics & soap
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

The acid number of cosmetics is measured by titration with 0.1mol/L potassium hydroxide in ethanol solution after adding ethanol to the sample. 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.

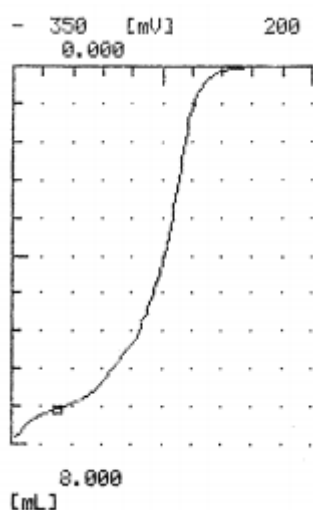
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L potassium hydroxide in ethanol solution
Solvent	Ethanol

4. Example



-Titration curve-

-Measurement results-

	Sample (g)	Titer (mL)	Acid number (mg/g)
1	2.0264	7.2705	20.128
2	2.0021	7.1944	20.159
Average			20.144

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