

TIB-97001enL

Application Memo Acid value of Cooking Oil

Industry Fat and oil

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards The JOCS Standard methods for the Analysis of Fats, Oils and Related Materials

1. Overview

Measurement of acid value is specified in Standard methods for the analysis of fats, oils and related materials.

The test sample is dissolved in a mixture of benzene and ethanol, and the sample is titrated by potentiometry with the 0.1mol/L potassium hydroxide (2-propanol) solution.

The endpoint is obtained on titration curve. The acid value is calculated from the titration volume up to the endpoint.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH glass electrode

Double junction reference electrode Temperature compensation electrode

3. Reagents

Titrant 0.lmo1/L potassium hydroxide (2-propanol) solution

Solvent Benzene + Ethanol (1+1)

4. Example



—Measurement results—			
	Sample	Titer	Acid value
	(g)	(mL)	(mg/g)
1	5.0627	1.0765	1.0999
2	5.0844	1.0801	1.0992
3	5.1168	1.0887	1.1016
Average			1.1002
SD			0.0012
RSD(%)			0.11

—Titration curve—

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