

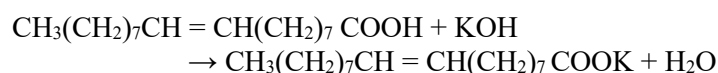
Application Memo

Acid value of Oleic Acid

Industry	Fat and Oil
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	JIS K 0070

1. Overview

The oleic acid is a typical fatty acid of plant and animal fats and oils, and its acid value can be measured according to JIS K 0070-1992. The test sample is made of oleic acid dissolved in 2-propanol, and titrated with the 0.1mol/L potassium hydroxide (ethanol) solution. The endpoint is found by the maximum inflexion point on the titration curve. The oleic acid value is calculated from the titration volume.



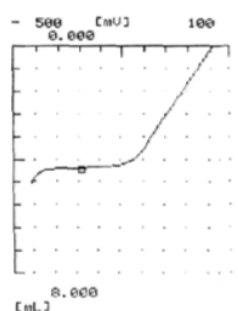
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L potassium hydroxide (ethanol) solution
Solvent	2-Propanol

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Total acid (mg/g)
1	0.1176	4.3576	207.9
2	0.1036	3.8418	208.1
3	0.1118	4.1693	209.2
Average			208.4
SD			0.7
RSD(%)			0.4

Please feel free to contact us for any further information.

<Contact> Kyoto Electronics Manufacturing Co., Ltd.

Overseas Sales & Marketing Sect.

<http://www.kyoto-kem.com/en/contact/form.php>