

TIA-98001enL

# **Application Memo Total Acid Number of Grease**

Industry Petrochemicals

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards

#### 1. Overview

A test sample of grease is dissolved in mixture of toluene, 2-propanol and a small amount of water, and the sample is titrated by potentiometry with 0.1mol/L potassium hydroxide + 2-propanol solution. The endpoint is obtained on the titration curve.

The total acid number is calculated from the titration volume up to the endpoint.

### 2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH Glass electrode

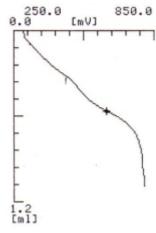
Double junction reference electrode Temperature compensation electrode

## 3. Reagents

Titrant 0.1mol/L potassium hydroxide + 2-propanol solution

Solvent Toluene, Pure water, 2-propanol

## 4. Example



—Measurement results—			
	Sample	Titer	Acid number
	(g)	(mL)	(mgKOH/g)
1	3.0092	0.5722	1.0667
2	3.0093	0.5518	1.0287
3	3.0090	0.5860	1.0925
Average			1.0626
SD			0.0321
RSD(%)			3.02

—Titration curve—

Please feel free to contact us for any further information.

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