

Application Memo

Acid Value of Lubricating Oil

Industry	Petrochemicals
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

After adding the solvent to the sample, potassium hydroxide concentration is measured by titration with the titrant. The endpoint is the maximum inflexion on the titration curve. The potassium hydroxide concentration as the acid value is calculated from the titration volume of the titrant.

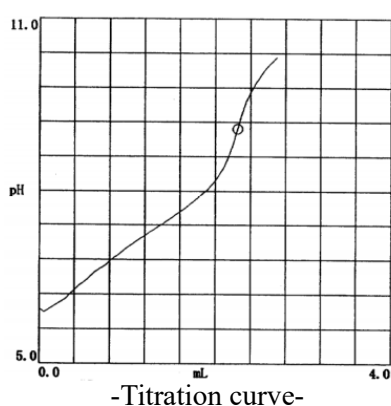
2. Apparatus

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)
Additive	Toluene, Water, 2-propanol

4. Example



—Measurement results—

	Sample (mL)	Titer (mL)	Conc. (mg/g)
1	0.1088	2.2511	116.1
2	0.1111	2.2944	115.9
3	0.1146	2.3593	115.5
Average			115.8
SD			0.3
RSD(%)			0.3

Please feel free to contact us for any further information.
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