

Application Memo

Measurement Bromine Number of Toluene

Industry	Organic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	JIS K 2605

1. Overview

After adding the solvent to the sample, bromine number is measured by titration with the titrant at 20°C temperature. The endpoint is the maximum inflexion on the titration curve. The bromine number is calculated from the titration volume of the titrant.

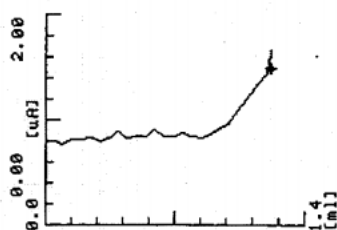
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier POT)
Electrode	Combined platinum electrode

3. Reagents

Titrant	1/3000mol/L potassium bromate/potassium bromide solution
Solvent	Mixed solution of 714mL acetic acid, 134mL methanol, 134mL trichloroethane, and 18mL (1+5) sulfuric acid

4. Example



—Titration curve—

-Measurement results-

	Sample (mL)	Titer (mL)	Bromine number (mg/100g)
1	50	1.2360	0.4571
2	50	1.2050	0.4478
Average	-	-	0.4525

Please feel free to contact us for any further information.
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