

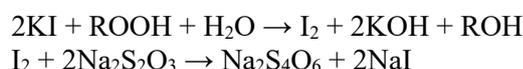
## Application Memo

# Peroxide Value (POV) of Kerosene

Industry	Petroleum
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration
Standards	

## 1. Overview

The extent of oxidation of kerosene can be known by measuring peroxide value. A kerosene sample is tested as follows: the test sample dissolved in solvent is added with potassium iodide, and then, free iodine is titrated with sodium thiosulfate up to the endpoint. The peroxide value is obtained from the titration volume.



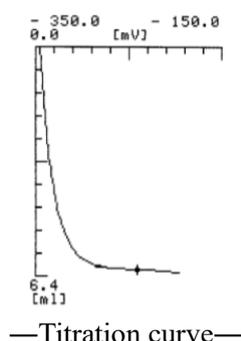
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined Pt electrode for micro titration

## 3. Reagents

Titrant	0.01mol/L sodium thiosulfate
Solvent	2,2,4 trimethyl pentane and acetic acid (2+3)
Additive	Saturated potassium iodide
Inactive gas	Nitrogen gas

## 4. Example



—Measurement results—

	Sample (g)	Titer (mL)	POV (meq/kg)
1	5.0020	6.2479	12.468
2	4.9912	5.8889	11.776
3	5.0012	6.1265	12.228
Average			12.157
SD			0.351
RSD(%)			2.89

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