

TIR-99010enL

Application Memo Iodine Number of Octanol

Industry Organic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Redox titration

Standards

1. Overview

The iodine number of octanol is measured by as follows: Firstly, the sample is added with the Wijs solution and left in a dark room for reaction. Then, 10% potassium iodide is added for titration with 0.1mol/L sodium thiosulfate. The endpoint is the maximum inflexion point on the titration curve. The iodine number is calculated from titration volume of sodium thiosulfate.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Combined platinum electrode

3. Reagents

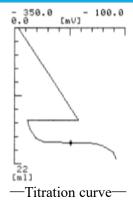
Reagent 0.1mol/L sodium thiosulfate

Additive Wijs solution (7.9g iodine trichloride and 8.9g iodine each dissolved in

acetic acid and mixed together into 1L in total)

10% potassium iodide

4. Example



—Measurement results—			
	Sample	Titer	Iodine number
	(g)	(mL)	(Ig/100g)
1	25.0171	18.6647	0.00306
2	25.0247	18.6946	0.00154
3	25.0168	18.6875	0.00190
Average			0.00217
SD			0.00079
RSD(%)			37
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