

Application Memo

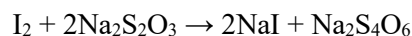
Factor of Iodine Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration
Standards	JIS K 8001

1. Overview

Mol concentration of reference substance used in volumetric analysis is expressed by a number of numeric with and without fraction, of which coefficient is called the factor.

According to JIS K 8001-2017, the factor of iodine is determined by titration with 0.1mol/L sodium thiosulfate. The concentration of the iodine solution is calculated from the titration volume. The endpoint is the maximum inflexion on the titration curve.



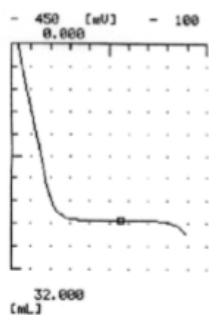
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium thiosulfate solution
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4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Factor
1	25.0	25.2285	1.009
2	25.0	25.0634	1.003
3	25.0	25.0509	1.002
Average			1.004
SD			0.004
RSD(%)			0.4

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