KYOTO ELECTRONICS MANUFACTURING CO., LTD.

TIQ-94021enL

Application Memo Tin in Soldering Solution

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

1. Overview

Quantification of tin (Sn^{2+}) of soldering solution is started first by preparing pure water and 6mol/L HCl in a beaker. Add and stir potassium sodium tartrate to dissolve. After adding sodium hydrogen carbonate and the test sample, titrate with 0.05mol/L iodine solution up to the endpoint, which is the maximum inflexion on the titration curve. The tin concentration is calculated from the titration volume of the iodine solution.

2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Platinum electrode Ceramic reference electrode

3. Reagents

Titrant	0.05mol/L (0.1N) iodine	
Solvent	Pure water	
Additive	6mol/L-hydrochloric acid Potassium sodium tartrate	
	Sodium hydrogen carbonate	

4. Example

40.0

—Measurement results—					
	Sample	Titer	Tin		
	(mL)	(mL)	(g/L)		
1	2.0	6.7453	20.02		



-Titration curve-

Please feel free to contact us for any further information.

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