KYOTO ELECTRONICS MANUFACTURING CO., LTD.

TIQ-00115enL

Application Memo Quantification of TMAH

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

TMAH (tetramethyl ammonium hydroxide) is measured by titration with 0.1mol/L hydrochloric acid after the test sample is diluted with water. The endpoint is determined by Level Stop which is previously selected and preset in the titration system. The concentration of TMAH is calculated from the titration volume of hydrochloric acid solution.

2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode
	Ceramic reference electrode
	Temperature compensation electrode

3. Reagents

Titrant	0.1mo1/L hydrochloric acid solution
Solvent	Pure water

4. Example

	3.00 [pH] 0.000					12.00				
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Cn	16.000 [mL]									
	-Titration curve-									

	—Measurement results—						
	Sample	Titer	TMAH				
	(g)	(mL)	(%)				
1	3.0009	7.8519	2.3850				
2	3.0244	7.9150	2.3855				
3	3.0302	7.9286	2.3851				
Average			2.3852				
SD			0.0003				
RSD(%)			0.01				

Please feel free to contact us for any further information.

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