KYOTO ELECTRONICS MANUFACTURING CO.,LTD.

KVX-01101enL

Application Memo

Accuracy Check of KF Reagents (with Water Standard)

Instrument	Karl Fischer moisture titrator
Measurement method	Volumetric titration
Standards	JIS K 0113, ISO 760, ASTM E203

1. Overview

Moisture titration with Karl Fischer reagent is the most reliable moisture measurement method in the world. The procedure is adopted in many official standards as test method specified in ISO, ASTM, DIN, BS and JIS.
This application note is an example where the accuracy of water standard 10.0 is verified using the factor determined in the application memo KVX-01001.

2. Apparatus

Main unit	Karl Fischer moisture titration volumetric system
Electrode	Twin platinum electrode

3. Reagents

Titrant	HYDRANAL™ Composite 5
Solvent	HAYASHI™ Solvent ML

4. Example

—Measurement results—

Run	Size Wt1–Wt2 (g)	Vol. (mL)	Water content (%)	Statistics	
1	1.0183	2.015	0.9947	Mean	0.9974 %
2	0.9977	1.970	0.9925	SD	0.0066 %
3	0.9954	1.990	1.0049	RSD	0.66 %

Please feel free to contact us for any further information.

＜Contact＞Kyoto Electronics Manufacturing Co., Ltd.
Overseas Sales & Marketing Sect.
http://www.kyoto-kem.com/en/contact/form.php