

Application Memo

Water Determination in Hydrazine Salts [Hydrazine sulfate]

Industry	Inorganic chemical industry
Instrument	Karl Fischer moisture titrator
Measurement method	Volumetric titration (Direct Method)
Standards	JIS K 0113, ASTM E 203, ISO 760

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.

Here in this application, we measure water content in hydrazine sulfate by direct method of KF titration according to JIS K 0113. Hydrazine sulfate can be dissolved in the solvent of a mixture of methanol and 2-propanol or the solvent and the water content can be measured without any difficulties. It is necessary to stir the sample enough in order to dissolve it in the solvent before titration.

2. Apparatus

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

3. Reagents

Titrant	HYDRANAL™ Composite 2
Solvent	HAYASHI™ Solvent MI

4. Example

—Measurement results—

Sample	Sample size (g)	Water content	
		(mg)	(%)
Hydrazine sulfate	1.0920	0.8856	0.081

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