

KVX-01251enL

Application Memo Water Content in Crystalline Acids

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 crystalline acids by direct method of KF titration according to JIS K 0113.

Carboxylic acids like cyclic or chain structured are crystalline acids. Most of them are soluble in the solvent and easy to measure water content.

2. Apparatus

Main unit Karl Fischer moisture titration volumetric system

Electrode Twin platinum electrode

3. Reagents

Titrant KEMAOUA titrant TR-3

Solvent KEMAQUA solvent MET for genaral

4. Example

—Measurement results—			
Sample name	Sample	Water content	
	(g)	(mg)	(%)
Salicylic acid	3.0010	0.18	0.006
Oxalic acid	0.1244	3.55	28.54

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