

KVX-01231enL

Application Memo

Water Determination in Phenols (1)

Industry Organic chemical industry
Instrument Karl Fischer moisture titrator
Measurement method
Standards Volumetric titration (Direct Method)
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 phenols by direct method of KF titration according to JIS K 0113. Phenols can be dissolved in the solvent of a mixture of methanol and 2-propanol or 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 HYDRANALTM Composite 2
Solvent HAYASHITM Solvent MI

4. Example

-Measurement results-

Sample	Water content	
	mg	%
Phenol	0.8257	0.017
m-cresol	1.6515	0.031
p-cresol	2.2192	0.041
2-nitro phenol	0.8258	0.082
Resorcinol	0.3140	0.006

Commis	Water content	
Sample	mg	%
8-quinolinol	0.8774	0.032
1-naphthol	0.9506	0.019
Potassium guiacol sulfonate	2.8247	3.74
2,4-dichlorophenol	1.1143	0.041

Please feel free to contact us for any further information.

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