

Application Memo

Moisture in Cosmetics Such as Perfume or Mascara

Industry	Cosmetics
Instrument	Karl Fischer moisture titrator
Measurement method	Volumetric titration (Direct Method)
Standards	JIS K 0113, ASTM E 203, ISO760

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

The samples dissolves in mixture of chloroform and methanol or the solvent with ease.

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

Sample	Sample size (g)	Water content	
		mg	%
Perfume	0.1644	23.14	14.08
Mascara	0.0645	31.11	48.23

Please feel free to contact us for any further information.

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