

## Application Memo

# Moisture in Toluene

Industry	Organic chemical industry
Instrument	Karl Fischer moisture titrator
Measurement method	Volumetric titration (Direct method)
Standards	JIS K 8680, 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.

The test conducted here is an example of volumetric titration for water content of toluene according to JIS K 8680-2006.

## 2. Apparatus

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

## 3. Reagents

Titrant	KEMAQUA titrant TR-5
Solvent	KEMAQUA solvent MET for general

## 4. Example

—Measurement results—			
	Sample (g)	Titer (mL)	Water (ppm)
1	9.959	0.405	190.8
2	9.959	0.385	181.3
3	9.959	0.390	183.7
Average			185.3
SD			4.9
RSD(%)			2.7

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