

## Application Memo Moisture of Toluene

Industry	:	Organic Chemical
Instrument	:	Karl Fischer Moisture Titrator
Measurement method	:	Coulometric Titration (Direct Method)
Standards	:	JIS K 0113, JIS K 0068, ASTM D 1533, ISO 760

### 1. Overview

Moisture titration using Karl Fischer reagent is popularly practiced water determination worldwide as the most reliable method. 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 coulometric titration for water content of toluene.

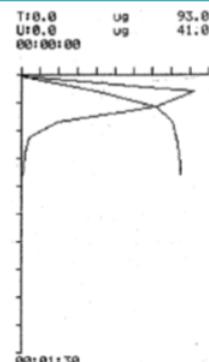
### 2. Apparatus

- Main unit : Karl Fischer moisture titration coulometric system  
Electrode : Electrolysis electrode  
Twin platinum electrode for KF titration

### 3. Reagents

- Anolyte : KEMAQUA AGE (Kyoto Electronics)  
Catholyte : KEMAQUA CGE (Kyoto Electronics)

### 4. Example



—Titration curve—

—Measurement results—			
	Sample (g)	Moisture (μg)	Concentration (ppm)
1	1.7494	111.80	63.91
2	1.7435	117.10	67.16
3	1.7500	120.87	69.07
Average			66.71
SD			2.61
RSD(%)			3.91

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