

# Volumetric Water Determination by Titration

## test method

For determination of water content of liquids. The device is based on volumetric titration according to the Karl Fischer method. The titrator works fast and precise for a wide range of use.

## volumetric Karl-Fischer titrator

- Conforms to ASTM D6869, E203, D4377 (withdrawn 2020), and related specifications
- Complete measuring system for water determination
- Fully-automatic volumetric titration
- Precise control of the titration parameters by special control algorithms
- Preset measurement method allows an immediate start
- The result output can be adjusted to your needs by using a formula generator

The actual curve and the measurement drift during titration process appear in the display and you can see the titration solvent consumption. Standard methods for different applications are programmed.

The measurement uses a potentiometric titration method in an anhydrous medium. The titration with titrant starts, once the sample is dosed into the reagent. The user has to enter the sample weight into the menu. The titration speed is precisely adjusted to the reaction rate by control algorithms. The titration is performed automatically until the endpoint indication of measurement. At the end of the measurement, results are shown in ppm water or several other units.

## specifications

Conforms to the specifications of: ASTM D6869, E203, D4377 (withdrawn 2020); DIN 51777; IP 356, IP 471; ISO 10336, ISO 6296

### Measurement Method:

Water determination by Karl-Fischer volumetry

Types of result: ppm, mg/L oil or using the formula generator

### Measuring Range:

10ppm to 100%

Resolution of the display (pH / mV): 0.001 / 0.1

Electrical Requirements: 100-240 VAC, 50/60 Hz, 30 VA

## applications

The device is suitable for analysis of:

- Methanol
- Isopropyl Alcohol
- Glycol
- Other Organic Liquids



K90810 Automatic Titrator

## details

The Automatic Titrator for Water Content consists of

- an automatic volumetric titrator with potentiometric indication

- a titration vessel with stirrer unit

The determination of Water Content is based on:

- a potentiometric titration in an anhydrous medium
- a precise indication by a selective platinum electrode, which is stable over long periods

Steps of the analysis are:

1. Titration of blank value – water content of vessel and solvent (conditioning of system)
2. Determination of the titrant concentration with standard
3. Titration of the sample

## ordering information

catalog no.	description
K90810	Automatic Volumetric Karl-Fischer Titrator, 100-240V 50/60Hz
K90804-29	Karl-Fischer Starter Kit
K90802-17	Electrode – Karl Fischer