

## Discover the Future of Product Safety and Quality with aWLife

The aWLife analyzer, designed and manufactured by Steroglass in Italy, represents the most advanced, reliable and innovative solution for studying the shelf life of food, cosmetics, pharmaceuticals, and pet food products.

### Why use aWLife?

- **Cutting-Edge Technology:** thanks to dew point sensor technology, aWLife ensures precise and reliable measurements of water activity (aW) which is a critical parameter for determining product shelf life.
- **Versatility:** ideal for a wide range of sectors, from food to cosmetics and pharmaceuticals, aWLife perfectly adapts to the needs of every laboratory.
- **Reliability:** each high quality component of aWLife is designed to last over time and maintain a steady level of performance and accurate results.

### Advantages of aWLife:

- **Precision:** Accurate measurements of water activity, essential for determining shelf life and ensuring product safety.
- **Ease of Use:** User-friendly interface makes analysis simple and accessible even for non-experts users
- **Support and Assistance:** Steroglass offers excellent customer service, with technical support always available to ensure the instrument always performs at its best.

### Main Applications:



#### Food Industry

aW analysis allows for control of the shelf life and safety of packaged foods, preventing growth of microorganisms thus ensuring product quality



#### Cosmetics

aW analysis ensures their stability over time



#### Pharmaceuticals

aW analysis ensures their stability and longevity



#### Pet food

aW analysis to make sure that pet food remains fresh and safe throughout its commercial life



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

Steroglass® has been one of the leading companies in the scientific field for its remarkable expertise and technical application assistance as well as its specific and unique range of products. We aim to design, develop, produce and trade innovative and high quality products in order to provide our customers with best possible solutions required by the market.

## CERTIFICATED TECHNICAL ASSISTANCE

Our experience at your disposal

TECHNICAL/ANALYTICAL ADVICE  
TECHNICAL MAINTENANCE CONTRACTS  
REPAIR/SETTING/CALIBRATION

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# aWLife

Dew Point Water Activity Meter

progetto grafico MARINI



Benchtop water activity meter



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**aWLife: the instrument that revolutionizes your quality control process!**





## aWLife

A brand new analysis cell, multiple hardware and software upgrade make aWLife the utmost instrument to analyse the most critical values of water activity mainly in freeze-dried products, products with high aW values and with interfering substances. Moreover, aWLife is minimally affected by adverse environmental conditions.

- Low noise thanks to excellent ventilation system
- Precise sample temperature measurement and control system for best data accuracy
- Measurement cell with specific insulation system eliminates thermal and electromagnetic interferences
- Inlet for temperature control inside the cell by means of certified external temperature probe
- Selective single-point calibration for each type of standard

## Technical specifications:

### Activity water

- Measuring range: from 0,030 a 1,000 aW
- Accuracy:  $\pm 0,003$  aW at  $+25^{\circ}\text{C}$
- Repeatability (standard deviation):  $\pm 0,001$  aW
- Calibration:
  - **Selective Calibration** at 7 points (0,150 - 0,250 - 0,500 - 0,760 - 0,920 - 0,984 - 1,000) for Steroglass and non-Steroglass unsaturated standards
  - **Single point Calibration**, at any point settable by the user, for saturated standards at any value
- Equilibrium/measurement times: < 5 minutes
- Sensor: Dew point sensor required by ISO 18787:2017) Sensor block with front opening for easy sample insertion and cleaning. Equipped with a fan for uniform headspace, a high-seal chamber with a seal that guarantees very little environmental interference
- Display resolution:  $\pm 0.0001$  aw (4 decimal places)
- Security: administrator management and up to 15 users via password (in compliance with CFR21 Part 11 - guarantee of data immutability)
- Software for external PC in bidirectional Windows environment in compliance with Industry 4.0
- Access hole for temperature check, block with certified external probes

### Temperature

- Complete sample thermostating: at  $+25^{\circ} \pm 1^{\circ}\text{C}$  (adjustable from  $+15^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ )
- Real sample temperature reading with dedicated infrared sensor (also equipped with temperature indicator for the lid and the base of the reading block and cooled mirror temperature sensor)
- Operating range at room temperature:  $+5^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Digital resolution: 0.01 °C
- Accuracy:  $\pm 0.2^{\circ}\text{C}$
- Uncertainty:  $\pm 0.2^{\circ}\text{C}$

## General features:

- Water activity meter (aW) in compliance with ISO 18787:2017 standards
- 7-inch, latest-generation, color touchscreen graphic display
- User-friendly software management software with pop up and notification system for easy workflow
- USB ports for connection to a PC and for downloading data onto mobile memory cards
- Ethernet interface for connection to a PC and/or local networks for data acquisition
- Total data management flexibility - from storing information, producing graphs to saving operators names
- Connection to a barcode reader and thermal impact printer
- aWLife comes with aWdata software for data management and remote control

## Accessories:

- Cups and lids suitable both for aWLife and other aW analyzers
- Unsaturated calibration standards
- Cleaning kit
- Barcode reader and thermal impact printer



aWLife represents the state-of-the-art in water activity (aW) meters, and today it is an essential instrument for the quality control of products and ingredients in the food, pharmaceutical and cosmetic industries. Wherever it is necessary to study a product's shelf life in order to determine its risk of microbial development and therefore how long it will keep over time, aWLife is the answer. aWLife is also the top-performing instrument on the market, thanks to its dew point sensor, which measures the actual water activity (aW), and not related secondary parameters. For this reason, the dew point sensor is considered the benchmark for these measurements. New calibration and control modes allow the operator to

optimize times even for multiple analyses of samples with very different water activity (aw) values. With the introduction of innovative calculation and temperature control systems, aWLife allows you to perform different types of analyses: from simple control measurements to specific shelf life tests for each individual case. aWLife's latest generation touchscreen graphic display, Wi-Fi and USB compatibility ensure a simple, intuitive workflow, allowing automatic data saving and immediate recognition of the sample and the operator, as well as communication with PCs and external memory cards. aWLife is certifiable and in compliance with the latest ISO standards.

