



PRODUCT
DATASHEET '24

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



Optics-1000 Boron (Lr)

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Optics-1000 Boron (Lr)

Method - Colorimetric

After adding the sample into the measurement cell, some reagents are added in order to adjust the solution to the desired conditions (pH, valence's elements, etc.). Then, a blank is done to correct any temperature or turbidity disturbance. Subsequently, a last reagent is added, and it reacts with solution developing a color, which is measured using a correct wavelength. Thanks to the photometer used, the result achieves a great accuracy.



Principle of measurement

Thanks the buffer reagent, the sample is adjusted to pH between 5 and 6. Then, the addition of *Azomethine-H* & *Ascorbic acid*, they react with Boron giving a green-yellow color that is measured at 420nm.

Advantages of the method

The method is accurate and sensitive. The range is linear up to 2 ppm and higher ranges can be obtained diluting the sample.



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Technical Specifications

Basic Specifications	
Range	From 0 to 100 ppb / 500 ppb / 1000 ppb / 2000 ppb. (Adjustable higher concentrations adjusting reagents.)
Accuracy	±2%
Repeatability	±2%
Resolution	0,1 ppb
Analysis time	around 30 minutes
Calibration	Two point
LED Wavelength	420 nm
Reagents consumption	
Reagent 1	2.2 ml / analysis - 2.0L / month
Reagent 2	4.2 ml / analysis - 3.5L / month (Monthly consumption calculated assuming 1 analysis per hour.)



APPLICATIONS

- Semiconductor industry
- Desalination plants and more.



Aquaculture Farms
Maintain Hd levels in fish tanks for optimal aquatic conditions.



Drinking Water Quality
Ensure safe drinking water by monitoring Hd levels in water sources.



Environmental Research
Assess Hd concentrations in water bodies to study pollution and ecosystem health.



Agriculture and Irrigation
Monitor Hd levels in irrigation water to optimize nutrient supply to crops.



Scientific Laboratories
Conduct Hd analysis for research and educational purposes.



Industrial Processes
Control Hd concentrations in wastewater to meet environmental regulations.



Note -

This data sheet serves as general information about the Optics-1000 Boron (Lr). For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact sales@advanceanalytik.com.



LET'S CONNECT !

Let's work together to find a solution that works for you



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