



PRODUCT  
DATASHEET '24

# ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



## OPTICS-1000 CHROMIUM VI (Cr)

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# Optics-1000 Series

## Chromium VI (Cr)

### 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

The chromium (VI) reacts with the diphenylcarbazide reagent to form a pink complex. The reaction is specific for chromium (VI) and there are no interference compounds.

### Advantages of the method

The method is very simple, very specific and is very sensitive because of the high absorbance of the diphenylcarbazide-chromium (VI) complex formed.



# Optics-1000 Chromium VI (Cr)

## Technical Specifications

Basic Specifications	
Range	From 0 to 200 ppb (Adjustable higher concentrations with internal dilution.)
Accuracy	±2%
Repeatability	±2%
Resolution	0,1 ppb
Analysis time	around 10 minutes
Calibration	two point
LED Wavelength	545 nm
Reagents consumption	
Reagent 1	0,8 ml / analysis - 0.75 L / month (Monthly consumption calculated assuming 1 analysis per hour)





# APPLICATIONS



**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 Chromium VI (Cr). 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](mailto:sales@advanceanalytik.com).*



# LET'S CONNECT !

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



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