



PRODUCT  
DATASHEET '24

# ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



## OPTICS 1000 - CYANIDE

**CYANIDE (CN<sup>-</sup>)**

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[www.advanceanalytik.com](http://www.advanceanalytik.com)  
[sales@advanceanalytik.com](mailto:sales@advanceanalytik.com)

# Optics 1000 Series

## CYANIDE (CN<sup>-</sup>)

### 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

After adding a buffer to establish the desired pH conditions to reactions takes place, Chloramine-T reagent reacts with cyanide ion to form cyanogen chloride. Afterwards, this compound reacts with the reagent color to form a blue colored complex. The intensity of the blue color developed is proportional to the concentration of cyanide in sample.



## Advantages of the method

The method is very simple requiring but a single reagent, which is specific for hydrazine. Keeping the reagent in an amber container, which will not transmit UV light, the reagent is stable for at least a month.

## Specifications

<b>RANGE</b>	From 0 to 200 ppb. Adjustable higher concentrations with internal dilution.
<b>ACCURACY</b>	±2%
<b>REPEATABILITY</b>	±2%
<b>ANALYSIS TIME</b>	around 20 minutes
<b>RESOLUTION</b>	0,1 ppb
<b>CALIBRATION</b>	two point
<b>LED WAVELENGTH</b>	588 nm

## Reagents consumption

- Reagent 1: 1 ml / analysis - 0.75L / month
- Reagent 2: 1 ml / analysis - 0.75L / month
- Reagent 3: 2 ml / analysis - 1.50L / month

Monthly consumption calculated assuming 1 analysis per hour.



**Note -**

*This data sheet serves as general information about the Optics 1000 - CYANIDE (CN-). 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



## Contact Us :

+36 70328 6862

1132, Budapest Váci ut 16 Faz 12. ajto

<https://advanceanalytik.com>

[sales@advanceanalytik.com](mailto:sales@advanceanalytik.com)

