



PRODUCT
DATASHEET '24

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



OPTICS 1000 – HYDRAZINE

HYDRAZINE (N₂H₄)

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Optics 1000 Series

HYDRAZINE (N₂H₄)

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

There is a direct coupling of the carbonyl group of the 4-aminobenzaldehyde with the NH₂ group of the hydrazine to form a yellow colored complex.

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

RANGE	From 0 to 100 ppb. Adjustable higher concentrations with internal dilution.
ACCURACY	±2%
REPEATABILITY	±2%
ANALYSIS TIME	around 18 minutes
RESOLUTION	0.1 ppb
CALIBRATION	two point
LED WAVELENGTH	450 nm

Reagents consumption

- Reagent 1: 2.5 ml / analysis - 2.0L / month

Monthly consumption calculated assuming 1 analysis per hour.



**Note -**

This data sheet serves as general information about the Optics 1000 - HYDRAZINE (N₂H₄). 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.



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



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