

Hydrazine P

 $0.05 - 0.5 \text{ mg/L } N_2 H_4$

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Dimethylaminobenzaldehyde

Instrument specific information

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

Instrument Type	Cuvette	λ	Measuring Range
MD 100, MD 110, MD 600, MD 610, MD 640, MultiDirect	ø 24 mm	430 nm	$0.05 - 0.5 \text{ mg/L } N_2 H_4$
SpectroDirect, XD 7000, XD 7500	ø 24 mm	455 nm	0.05 - 0.5 mg/L N ₂ H ₄

Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number			
Hydrazine Test Powder	Powder / 30 g	462910			
The following accessories are required.					
Accessories	Packaging Unit	Part Number			
Accessories Measuring spoon, 1 g	Packaging Unit 1 pc.	Part Number 384930			

Application List

- Boiler Water
- · Cooling Water

Preparation

- 1. If the water sample is turbid, it must be filtered before performing the zeroing.
- 2. The sample's temperature should not exceed 21 °C.

M205

Hydr



Notes

- 1. When using the hydrazine measuring spoon, 1 g is a level measuring spoon.
- 2. For removal of the reagents resulting in turbidity, ensure to use a quality membrane filter for medium deposits.
- 3. To check the reagent for prolonged storage and possible ageing, follow the test as described for tap water. Should the result of the value of the detection limit of 0.05 mg/L be exceeded, the reagent may only be used with restrictions (larger measured value deviations).



Determination of Hydrazine with Powder Reagent

Select the method on the device.

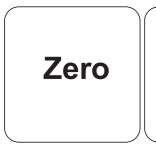
For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500





Fill 24 mm vial with 10 mL Close vial(s). sample.



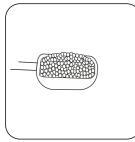




Press the ZERO button.

Remove the vial from the sample chamber.

For devices that require no ZERO measurement, start here.







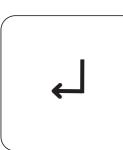
Add 1 g HYDRAZIN Test powder.

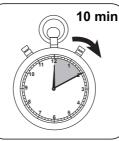
Close vial(s).

Invert several times to mix the contents.



Hydrazine P / M205



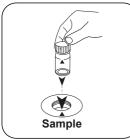


Press the $\ensuremath{\mathsf{ENTER}}$ button.

Wait for **10 minute(s)** reaction time.



Any slight turbidity that occurs must be removed by filtration.





Place **sample vial** in the sample chamber. Pay attention to the positioning.

Press the **TEST** (XD: **START**)button.

The result in Hydrazine appears on the display.



Chemical Method

Dimethylaminobenzaldehyde

Appendix

Calibration function for 3rd-party photometers

Conc. = $a + b \cdot Abs + c \cdot Abs^2 + d \cdot Abs^3 + e \cdot Abs^4 + f \cdot Abs^5$

	ø 24 mm	□ 10 mm
а	-6.53427 • 10 ⁺⁰	-3.53427 • 10 ⁺⁰
b	3.34209 • 10 ⁺²	7.12489 • 10 ⁺²
С		
d		
е		
f		

Interferences

Removeable Interferences

 Interferences as a result of highly coloured or turbid samples: Mix 1 part deionised water with 1 part household bleach. Add 1 drop of this mixture into a 25 ml water sample and mix. Use 10 ml prepared sample in place of deionised water in point 1. Note: For measuring water samples, an unprepared sample must be used. Principle: hydrazine is oxidised by household bleach. Colour interference will be eliminated by zeroing.

Interference	from / [mg/L]
NH ₄ ⁺	10
C₄H₃NO	10
VO ₄ ³⁻	1

Derived from

DIN 38413-P1