

Hydrazine L

M206

0.01 - 0.6 mg/L N<sub>2</sub>H<sub>4</sub>

## 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 600, MD 610, MD 640, MultiDirect	ø 24 mm	430 nm	0.01 - 0.6 mg/L N <sub>2</sub> H <sub>4</sub>
SpectroDirect, XD 7000, XD 7500	ø 24 mm	455 nm	5 - 600 μg/L N <sub>2</sub> H <sub>4</sub>

### Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number
VARIO Hydra 2 Reagent	100 mL	531200

The following accessories are required.

Accessories	Packaging Unit	Part Number
Pipette, 1000 µl	1 pc.	365045
Pipette tips, 0,1-1 ml (blue), 1000 pc.	1 pc.	419073

## **Application List**

- · Boiler Water
- · Cooling Water

## **Preparation**

- 1. Samples cannot be preserved and must be analysed immediately.
- 2. Sample temperature should be 21 °C ± 4 °C.

### **Notes**

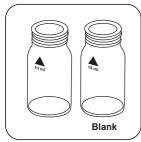
- The blank may develop a faint yellow colour due to the reagent.
- 2. The unit mg/L is rounded. Measuring Range 0,01-0,6 mg/L.





## **Determination of Hydrazine with Vario liquid Reagent**

Select the method on the device.



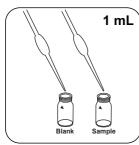
Prepare two clean 24 mm vials. Mark one as a blank.



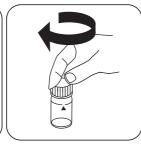
Put 10 mL deionised water in the blank.



Put **10 mL sample** in the sample vial.



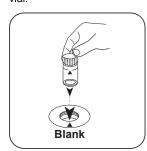
Add 1 mL Vario Hydra 2 Rgt solution to each vial.



Close vial(s).



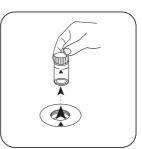
Invert several times to mix the contents.



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

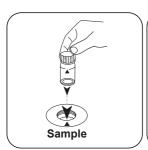


Press the **ZERO** button.



Remove the vial from the sample chamber.





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

# **Test**

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



Wait for 12 minute(s) reaction time.

Once the reaction period is finished, the measurement takes place automatically.

The result in Hydrazine appears on the display.



### **Analyses**

The following table identifies the output values can be converted into other citation forms.

Unit	Cite form	Scale Factor
mg/l	$N_2H_4$	1
μg/l	$N_2H_4$	1000

### **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	-2.02787 • 10 <sup>+1</sup>	-2.02787 • 10 <sup>+1</sup>	
b	3.38179 • 10+2	7.27086 • 10+2	
С	-2.0392 • 10 <sup>+1</sup>	-9.42622 • 10 <sup>+1</sup>	
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 <sub>4</sub> <sup>+</sup>	10	
Morpholin	10	
VO <sub>4</sub> 3-	1	



**Derived from** DIN 38413-P1