

REF 985859

en

Test 8-59

11.21

**NANOCOLOR® Methanol 15****Method:**

Conversion of methanol via catalytic oxidation using the enzyme alcohol oxidase. The hydrogen peroxide formed by this reaction is determined photometrically using the enzyme peroxidase and a specific indicator.

Range:	<b>0.2–15.0 mg/L MeOH</b>
Wavelength (HW = 5–12 nm):	<b>620 nm</b>
Reaction time:	<b>30 + 10 min</b>
Reaction temperature:	<b>25 °C</b>

**Contents of reagent set:**

- 23 test tubes Methanol 15 R0
- 1 flask with 90 mL Methanol 15 R1
- 1 flask with 6 mL Methanol 15 R2
- 1 flask with 10 mL Methanol 15 R3

**Hazard warning:**

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).

**Interferences:**

2-Propanol and glycerine do **not** interfere.  
Strong oxidizing agents, formaldehyde and lower primary alcohols like ethanol, propanol and butanol may lead to false, excessively high results.

**Preparation of samples:**

Turbid samples must be filtered before analysis (*NANOCOLOR®* Membrane Filtration Set, REF 91650).

**Procedure:**

Requisite accessories: piston pipette with tips, water bath or incubator (REF 951001)

*Remark: Remove only as many test tubes with freeze-dried reagent R0 as are required from the freezer immediately before use!*

Open test tube, add  
**3.0 mL R1** and  
**1.5 mL** sample (*the pH value of the sample must be between pH 6 and 8*) close and mix.  
Incubate in a water bath or incubator **exactly for 30 min at 25 °C.\***  
Open test tube, add  
**100 µL R2**, close and mix.  
Wait **1 min**.  
Open test tube, add  
**2 drops R3**, close and mix.  
Clean outside of test tube and measure after 10 min.

\* An incubation is also possible at room temperature. But depending on the temperature, variations in the obtained results are then to be expected.

**Measurement:**

For MACHEREY-NAGEL photometers see manual, test 8–59.

**Measurement when samples are colored or turbid:**

For all MACHEREY-NAGEL photometers see manual, use key for correction value.

**Photometers of other manufacturers:**

For other photometers check whether measurement of round glass tubes is possible. Verify factor for each type of instrument by measuring standard solutions.

**Storage:**

**Box A** of the tube test must be **stored icy-cold at < 0 °C!** **Box B** is to be stored in a refrigerator **at +2 °C to +8 °C**. Please pay attention to the expiry date. The reagents R1 to R3 must be adjusted to room temperature prior to carrying out analysis. We recommend removing Box B containing the additive reagents from the refrigerator in good time prior to use. Gently mix reagent R1 before use.

**Disposal:**

Information regarding disposal can be found in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).