# **visocolor**®ECO

# **Ammonium 15**

Test kit for performing colorimetric tests on ammonium ions in surface water and sewage

Monochloramine is derived from ammonium ions as a result of the effect of chlorine in the alkaline range. Combined with thymol, this forms a blue indophenol dye.

#### Measurement range:

0.5-15 mg/L NH<sub>4</sub>

### Contents of test kit (\*refill pack):

sufficient for 50 tests

30 mL NH<sub>4</sub>-1\* 2.5 g NH<sub>4</sub>-2\*

10 mL NH<sub>4</sub>-3\*

1 measuring spoon 70 mm\* 2 screw-plug measuring glasses

1 slide comparator

1 color chart

1 plastic syringe 1 mL

1 instructions for use'

### 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.

#### a) colorimetric determination with color chart

also refer to the pictogram on the back of the color chart

1. Pour a 1 mL water sample into each of the measuring glasses using the plastic syringe.

Place a measuring glass on position A in the comparator.

#### Only add the reagent to measuring glass B.

- 2. Add 10 drops of NH<sub>4</sub>-1. Seal the glass and mix.
- 3. Add 1 level measuring spoonful of NH<sub>4</sub>-2, seal the glass and shake the mixture until the powder has dissolved. Wait for 5 min.
- 4. Add 4 drops of NH4-3. Seal the glass and mix.
- Open the glass after **7 min** and place it on position B in the comparator.
- 6. Slide the comparator until the colors match in the inspection hole on top. Check the measurement reading in the recess on the comparator reed. Mid-values can be estimated.
- After use, rinse out both measuring glasses thoroughly and seal them.

# b) photometric determination

ne reagents are also suitable for **photometric evaluation**. Please refer to the separate instructions for photometric performance.

## ATTENTION:

Fill reaction tube 16 mm OD with 5 mL sample. This technique can also be used for analyzing sea water after dilution (1+9).

Disposing of the samples:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

## Interferences:

Primary amines react in the same way as ammonium ions and produce higher results

Depending on their concentration, substances which draw on the chlorine may reduce the measurement reading or suppress the reaction totally

The temperature of the water sample should be between 18 and 30 °C. Especially low temperatures decrease the reaction rate considerably (low results).

#### Conversion table:

mg/L NH <sub>4</sub> <sup>+</sup>	mg/L NH₄-N (ammonia- nitrogen)
0.5	0.39
1	0.78
2	1.6
3	2.3
5	3.9
7	5.4
10	7.8
15	11.6

### Storage:

Store the test kit in a cool (< 25 °C) and dry place.

CTL SCIENTIFIC SUPPLY CORP. 1016-3 Grand Boulevard, Deer Park, NY 11729

Tel: **631-242-4249** 

Web: www.ctlscientific.com

Manufacturer: Macherev-Nagel GMbH & CO, KG Rev: 2025-03