

# Ammonia 1.5 to 10 mg/L

Order No. 81 01 711

## Application Range

Determination of ammonia in water/waste water

Dräger-Tube:	Ammonia 0,25/a
Measuring range:	1.5 to 10 mg/L
Number of Strokes (n):	10
Typical Stroke Time:	10 to 30 s
Measurement Time:	approx. 200 s
Sample Volume:	200 mL
Color Change:	yellow → blue
Temperature Range:	4 to 30 °C
pH-Measurement:	necessary

## Information of Measurement

Using acetic acid or sodium hydroxide solution, the pH-value has to be adjusted to the value of 10.2 - 10.3.

## System Parameters (valid for pH 1.3)

Measurement Range [mg/L]	Standard Deviation [%]	Temperature [°C]	Parameters	
			B	C
1.5 to 10	30	4 to 7	3.427	2.926
		8 to 12	2.578	1.895
		13 to 17	1.397	1.409
		18 to 24	0.815	0.918
		25 to 30	0.989	0.774

## Evaluation of Measurement

Calculate ammonia concentration:

$$Y_{[\text{mg/L}]} = A \cdot B \cdot (X_{[\text{ppm}]} + C)$$

## Cross Sensitivity

Other basic substances are also indicated.



# Ammonia 10 to 100 mg/L

Order No. 81 01 711

## Application Range

Determination of ammonia in water/waste water

Dräger-Tube:	Ammonia 0.25/a
Measuring range:	10 to 100 mg/L
Number of Strokes (n):	1
Typical Stroke Time:	10 to 30 s
Measurement Time:	approx. 20 s
Sample Volume:	200 mL
Color Change:	yellow → blue
Temperature Range:	4 to 30 °C
pH-Measurement:	necessary

## Information of Measurement

Using acetic acid or sodium hydroxide solution, the pH-value has to be adjusted to the value of 10.2 - 10.3.

## System Parameters (valid for pH 10.2 - 10.3)

Measurement Range [mg/L]	Standard Deviation [%]	Temperature [°C]	Parameters	
			B	C
10 to 100	30	4 to 7	61.34	0.826
		8 to 12	40.46	0.310
		13 to 17	29.37	0.943
		18 to 24	27.59	0.463
		25 to 30	18.11	-0.123

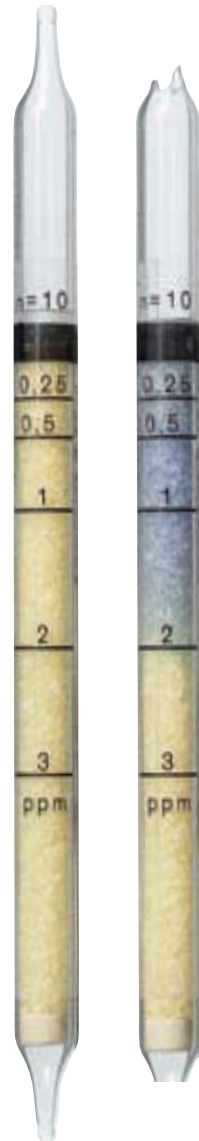
## Evaluation of Measurement

Calculate ammonia concentration:

$$Y_{[\text{mg/L}]} = A \cdot B \cdot (X_{[\text{ppm}]} + C)$$

## Cross Sensitivity

Other basic substances are also indicated.



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