

# Индикаторная бумага, pH-тестеры CARL ROTH ROTILABO, PEHANON, UNISOL, SD 50, PH1, PH5, PH5 Food, TRITEST, TRITEST L

## Технические характеристики

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Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
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Россия (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47

# pH-papers



## pH indicator paper ROTILABO® Eco

ROTH SELECTION.

For fast and accurate measurement of the pH value of liquids. pH indicator paper treated with coloured indicator solutions. Dip in the solution being tested, then compare the colour change with the colour scale. Dispenser with notched rim and small tear-off edge for easier handling. By roll, 8 mm width and 5 m length.

**Delivery incl.** dispenser with indicator paper and colour chart.

### pH 1–11

| pH measuring range | Gradation                 | Art. No. | Pack Qty. |  |
|--------------------|---------------------------|----------|-----------|--|
| 0 to 11            | 0-1-2-3-4-5-6-7-8-9-10-11 | KEE1.1   | 1 roll(s) |  |

### pH 1–14

| pH measuring range | Gradation                  | Art. No. | Pack Qty. |  |
|--------------------|----------------------------|----------|-----------|--|
| 1 to 14            | 1-2-3-4-5-6-7-8-9-10-12-14 | KEE2.1   | 1 roll(s) |  |

### pH 0.5–5.5

| pH measuring range | Gradation                                   | Art. No. | Pack Qty. |  |
|--------------------|---------------------------------------------|----------|-----------|--|
| 0.5 to 5.0         | 0,5-1,0-1,5-2,0-2,5-3,0-3,5-4,0-4,5-5,0-5,5 | KEE3.1   | 1 roll(s) |  |

### pH 5.5–9.0

| pH measuring range | Gradation                       | Art. No. | Pack Qty. |  |
|--------------------|---------------------------------|----------|-----------|--|
| 5.5 to 9.0         | 5,5-6,0-6,5-7,0-7,5-8,0-8,5-9,0 | KEE4.1   | 1 roll(s) |  |

### pH 6.5–10.0

| pH measuring range | Gradation                        | Art. No. | Pack Qty. |  |
|--------------------|----------------------------------|----------|-----------|--|
| 6.5 to 10.0        | 6,5-7,0-7,5-8,0-8,5-9,0-9,5-10,0 | KEE5.1   | 1 roll(s) |  |

### pH 9.5–13.0

| pH measuring range | Gradation                              | Art. No. | Pack Qty. |  |
|--------------------|----------------------------------------|----------|-----------|--|
| 9.5 to 13.0        | 9,5-10,0-10,5-11,0-11,5-12,0-12,5-13,0 | KEE6.1   | 1 roll(s) |  |



## Litmus paper

Macherey-Nagel.

Litmus paper is one of the most well-known and oldest indicator papers. Litmus is a natural product, derived from lichens. By roll, 7 mm length and 5 m width.

**Delivery incl.** dispenser.

### Blue

Colour change when entering the acid range.

| pH measuring range | Transition    | Colour conversion | Art. No. | Pack Qty. |  |
|--------------------|---------------|-------------------|----------|-----------|--|
| 8.0 to 5.0         | Alkali → acid | Blue → red        | 8222.1   | 1 roll(s) |  |

### Neutral

Colour change occurs when moving from neutral to the acid or base range.

| pH measuring range | Transition              | Colour conversion   | Art. No. | Pack Qty. |  |
|--------------------|-------------------------|---------------------|----------|-----------|--|
| 5.0 to 8.0         | Acid → neutral → alkali | Red → violet → blue | 8223.1   | 1 roll(s) |  |

### Red

Colour change when entering the alkali range.

| pH measuring range | Transition    | Colour conversion | Art. No. | Pack Qty. |  |
|--------------------|---------------|-------------------|----------|-----------|--|
| 5.0 to 8.0         | Acid → alkali | Red → blue        | 8224.1   | 1 roll(s) |  |



### pH indicator paper single-zoned

Macherey-Nagel.

For easy determination of the pH value. The reaction colour of the paper can be compared with the colour chart on the dispenser. By roll, 5 m length and 7 mm width.

**Delivery incl.** dispenser with colour chart.

#### Type (1) pH 1–11

| pH measuring range | Gradation               | Art. No.      | Pack Qty. |  |
|--------------------|-------------------------|---------------|-----------|--|
| 1 to 11            | 1-2-3-4-5-6-7-8-9-10-11 | <b>L861.1</b> | 1 roll(s) |  |

#### Type (2) pH 1–14

| pH measuring range | Gradation                | Art. No.      | Pack Qty. |  |
|--------------------|--------------------------|---------------|-----------|--|
| 1 to 14            | 1-2-3-5-6-7-8-9-10-12-14 | <b>N360.1</b> | 1 roll(s) |  |



### pH indicator paper, three-zone

Macherey-Nagel.

With three indicator zones (one main and two sub-indicator zones) for better estimation of intermediate values.

**Delivery incl.** two dispensers with indicator paper and a colour chart.

#### TRITEST

By roll, 10 mm length and 5 m width.

| pH measuring range | Gradation               | Art. No.      | Pack Qty. |  |
|--------------------|-------------------------|---------------|-----------|--|
| 1 to 11            | 1-2-3-4-5-6-7-8-9-10-11 | <b>C726.1</b> | 2 roll(s) |  |

#### TRITEST L

By roll, 14 mm length and 6 m width.

With two hydrophobic zones for better reading of the alkali range.

| pH measuring range | Gradation               | Art. No.      | Pack Qty. |  |
|--------------------|-------------------------|---------------|-----------|--|
| 1 to 11            | 1-2-3-4-5-6-7-8-9-10-11 | <b>C728.1</b> | 2 roll(s) |  |



### pH indicator rod pH-Fix

ROTH SELECTION.

With test fields made from colour-drenched cellulose. Reliable, **doesn't bleed**. Rod dimensions: Length 85 x Width 6 mm.

**Delivery incl.** colour comparison chart.

#### (1) pH 0–14 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                        | Art. No.      | Pack Qty.   |  |
|--------------------|----------------------------------|---------------|-------------|--|
| 0 to 14            | 1-2-3-4-5-6-7-8-9-10-11-12-13-14 | <b>0549.2</b> | 100 unit(s) |  |

#### (2) pH 0–14 in round dispenser

**Advantage:** Snap-on lid can be opened and closed with one hand, just using the thumb.

Not a medical device / Not an IVD product

| pH measuring range | Gradation                        | Art. No.      | Pack Qty.   |  |
|--------------------|----------------------------------|---------------|-------------|--|
| 0 to 14            | 1-2-3-4-5-6-7-8-9-10-11-12-13-14 | <b>KH69.1</b> | 100 unit(s) |  |

#### (1) pH 0.0–6.0 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                                         | Art. No.      | Pack Qty.   |  |
|--------------------|---------------------------------------------------|---------------|-------------|--|
| 0.0 to 6.0         | 0-0,5-1,0-1,5-2,0-2,5-3,0-3,5-4,0-4,5-5,0-5,5-6,0 | <b>C730.2</b> | 100 unit(s) |  |

#### (1) pH 2.0–9.0 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                                               | Art. No.      | Pack Qty.   |  |
|--------------------|---------------------------------------------------------|---------------|-------------|--|
| 2.0 to 9.0         | 2,0-2,5-3,0-3,5-4,0-4,5-5,0-5,5-6,0-6,5-7,0-7,5-8,0-8,5 | <b>H913.2</b> | 100 unit(s) |  |

#### (1) pH 4.5–10.0 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                                        | Art. No.      | Pack Qty.   |  |
|--------------------|--------------------------------------------------|---------------|-------------|--|
| 4.5 to 10.0        | 4,5-5,0-5,5-6,0-6,5-7,0-7,5-8,0-8,5-9,0-9,5-10,0 | <b>C731.2</b> | 100 unit(s) |  |

#### (1) pH 7.0–14.0 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                                                            | Art. No.      | Pack Qty.   |  |
|--------------------|----------------------------------------------------------------------|---------------|-------------|--|
| 7.0 to 14.0        | 7,0-7,5-8,0-8,5-9,0-9,5-10,0-10,5-11,0-11,5-12,0-12,5-13,0-13,5-14,0 | <b>C732.2</b> | 100 unit(s) |  |

#### (1) pH 0.3–2.3 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                   | Art. No.      | Pack Qty.   |  |
|--------------------|-----------------------------|---------------|-------------|--|
| 0.3 to 2.3         | 0,3-0,7-1,0-1,3-1,6-1,9-2,3 | <b>H914.2</b> | 100 unit(s) |  |

# pH-papers

## (1) pH 1.7–3.8 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 1.7 to 3.8         | 1,7-2,0-2,3-2,6-2,9-3,2-3,5-3,8 | H915.2   | 100 unit(s) |  |

## (1) pH 3.6–6.1 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 3.6 to 6.1         | 3,6-4,1-4,4-4,7-5,0-5,3-5,6-6,1 | H916.2   | 100 unit(s) |  |

## (2) pH 3.6–6.1 in round dispenser

Advantage: Snap-on lid can be opened and closed with one hand, just using the thumb.

**Purpose:** pH in vaginal secretion

*In vitro* diagnostic medical device according to IVDD

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 3.6 to 6.1         | 3,6-4,1-4,4-4,7-5,0-5,3-5,6-6,1 | LH91.1   | 100 unit(s) |  |

## (1) pH 5.1–7.2 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 5.1 to 7.2         | 5,1-5,4-5,7-6,0-6,3-6,6-6,9-7,2 | H917.2   | 100 unit(s) |  |

## (1) pH 6.0–7.7 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation               | Art. No. | Pack Qty.   |  |
|--------------------|-------------------------|----------|-------------|--|
| 6.0 to 7.7         | 6,0-6,4-6,7-7,0-7,3-7,7 | H918.2   | 100 unit(s) |  |

## (1) pH 7.5–9.5 in square packaging

Not a medical device / Not an IVD product

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 7.5 to 9.5         | 7,5-7,9-8,2-8,4-8,6-8,8-9,1-9,5 | H919.2   | 100 unit(s) |  |



## Indicator paper PEHANON®

Macherey-Nagel.

With colour comparison chart on every test strip. Ideal for coloured solutions and suspensions, since the colour shift shows equally on the indicator and comparison colours. The individual colour zones are separated by hydrophobic barriers.

One dispenser contains 200 strips (W 11 x L 100 mm).

## pH 1.0–12.0

| pH measuring range | Gradation                  | Art. No. | Pack Qty.   |  |
|--------------------|----------------------------|----------|-------------|--|
| 1.0 to 12.0        | 1-2-3-4-5-6-7-8-9-10-11-12 | EA47.1   | 200 unit(s) |  |

## pH 0–1.8

| pH measuring range | Gradation                     | Art. No. | Pack Qty.   |  |
|--------------------|-------------------------------|----------|-------------|--|
| 0.0 to 1.8         | 0-0,3-0,6-0,8-1,0-1,2-1,5-1,8 | AXT7.1   | 200 unit(s) |  |

## pH 1.0–2.8

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 1.0 to 2.8         | 1,0-1,3-1,6-1,8-2,0-2,2-2,5-2,8 | EA48.1   | 200 unit(s) |  |

## pH 1.8–3.8

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 1.8 to 3.8         | 1,8-2,1-2,4-2,7-3,0-3,2-3,5-3,8 | AXT8.1   | 200 unit(s) |  |

## pH 2.8–4.6

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 2.8 to 4.6         | 2,8-3,1-3,4-3,6-3,8-4,0-4,3-4,6 | AXT9.1   | 200 unit(s) |  |

## pH 3.8–5.5

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 3.8 to 5.5         | 3,8-4,0-4,2-4,4-4,6-4,9-5,2-5,5 | EA49.1   | 200 unit(s) |  |

## pH 4.0–9.0

| pH measuring range | Gradation                                   | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------------------|----------|-------------|--|
| 4.0 to 9.0         | 4,0-4,5-5,0-5,5-6,0-6,5-7,0-7,5-8,0-8,5-9,0 | AYA0.1   | 200 unit(s) |  |

## pH 5.2–6.8

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 5.2 to 6.8         | 5,2-5,5-5,7-5,9-6,1-6,3-6,5-6,8 | AYA1.1   | 200 unit(s) |  |



## pH 6.0–8.1

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 6.0 to 8.1         | 6,0-6,3-6,6-6,9-7,2-7,5-7,8-8,1 | EA50.1   | 200 unit(s) |  |

## pH 7.2–8.8

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 7.2 to 8.8         | 7,2-7,4-7,6-7,8-8,0-8,2-8,5-8,8 | AYA2.1   | 200 unit(s) |  |

## pH 8.0–9.7

| pH measuring range | Gradation                       | Art. No. | Pack Qty.   |  |
|--------------------|---------------------------------|----------|-------------|--|
| 8.0 to 9.7         | 8,0-8,2-8,4-8,6-8,8-9,1-9,4-9,7 | EA51.1   | 200 unit(s) |  |

## pH 9.5–12.0

| pH measuring range | Gradation                    | Art. No. | Pack Qty.   |  |
|--------------------|------------------------------|----------|-------------|--|
| 9.5 to 12.0        | 9,5-10,0-10,5-11,0-11,5-12,0 | AYA3.1   | 200 unit(s) |  |

## pH 10.5–13.0

| pH measuring range | Gradation                     | Art. No. | Pack Qty.   |  |
|--------------------|-------------------------------|----------|-------------|--|
| 10.5 to 13.0       | 10,5-11,0-11,5-12,0-12,5-13,0 | AYA4.1   | 200 unit(s) |  |

## pH 12.0–14.0

| pH measuring range | Gradation                | Art. No. | Pack Qty.   |  |
|--------------------|--------------------------|----------|-------------|--|
| 12.0 to 14.0       | 12,0-12,5-13,0-13,5-14,0 | AYA5.1   | 200 unit(s) |  |



## Indicator solution UNISOL

Macherey-Nagel.

For pH measurement in weak buffered solutions, in pure water, in surface water and in highly diluted acids or alkalis. Droplets of an indicator solution are added to the sample and the reaction colour is compared to a colour chart.



**Danger** H225

**Delivery incl.** 100 ml dropper bottle containing reagent (sufficient for approx. 500 pH measurements), colour chart and one type 13/72 measuring cuvette.

## UNISOL 410

| pH measuring range | Gradation                                            | Art. No. | Pack Qty. |  |
|--------------------|------------------------------------------------------|----------|-----------|--|
| 4.0 to 10.0        | 4,0-4,5-5,0-5,5-6,0-6,5-7,0-7,5-8,0-8,5-9,0-9,5-10,0 | TK45.1   | 1 unit(s) |  |

## UNISOL 113

| pH measuring range | Gradation                     | Art. No. | Pack Qty. |  |
|--------------------|-------------------------------|----------|-----------|--|
| 1 to 13            | 1-2-3-4-5-6-7-8-9-10-11-12-13 | TK46.1   | 1 unit(s) |  |

# pH-testers



## pH testers pH series

Dostmann.

- Large LCD display
- Waterproof and dust-proof
- Automatic temperature compensation from 0 to +50 °C
- Confirmation when a stable measured value is reached
- Automatic calibration with display of the calibrated ranges
- Multicolour back lighting for status display of measurement mode, calibration and alarm

### Technical specifications:

| Art. No.                    | EHX6.1                  | EHX7.1            | EHX8.1      |
|-----------------------------|-------------------------|-------------------|-------------|
| Parameters                  | pH                      | pH, Temperature   |             |
| pH measuring range          | 0 to 14                 | -2 to 16          |             |
| pH resolution               | 0,01                    |                   |             |
| pH accuracy                 | ±0,1                    | ±0,01             |             |
| Voltage measuring range     |                         | -1000 to +1000 mV |             |
| Voltage resolution          |                         | 1 mV              |             |
| Voltage accuracy            |                         | ±1 mV             |             |
| pH temp. compensation       | yes                     |                   |             |
| Temperature measuring range |                         | 0 to +50 °C       |             |
| Temperature resolution      |                         | 0.1 °C            |             |
| Temperature accuracy        |                         | ±0,5 °C           |             |
| Calibration points          | 1/2                     | 1/2/3             |             |
| IP rating                   | 67                      |                   |             |
| Replaceable electrode       | No                      | Yes               |             |
| Storage solution            | 3 M KCl                 |                   |             |
| Ø x L                       | 35 x 175 mm             |                   | 35 x 210 mm |
| Power supply                | 2 x 1.5 V AAA batteries |                   |             |

**Delivery incl.** buffer solutions (pH 4.01 and 7.00), storage solution, storage case and batteries.

### (1) PH 1

With fixed standard electrode. For aqueous solutions.

| Type | Art. No. | Pack Qty. |  |
|------|----------|-----------|--|
| PH 1 | EHX6.1   | 1 unit(s) |  |

### (2) PH 5

With replaceable standard electrode. For aqueous solutions.

| Type | Art. No. | Pack Qty. |  |
|------|----------|-----------|--|
| PH 5 | EHX7.1   | 1 unit(s) |  |

### (3) PH 5 Food

With replaceable immersion electrode. For solid and semi-solid samples like meat, butter, cheese, yoghurt, pastry, cream.

| Type      | Art. No. | Pack Qty. |  |
|-----------|----------|-----------|--|
| PH 5 Food | EHX8.1   | 1 unit(s) |  |



## pH testers SD 50

Tintometer.

- Robust, waterproof housing
- Automatic calibration and temperature compensation
- Auto Off after 8 min
- Memory with storage space for 25 datasets incl. time and date

### Technical specifications:

| Art. No.                    | YP28.1                  |
|-----------------------------|-------------------------|
| Parameters                  | pH, Temperature         |
| pH measuring range          | 0 to 14                 |
| pH resolution               | 0,01                    |
| pH accuracy                 | ±0.05                   |
| Voltage measuring range     | -1800 to +1800 mV       |
| Voltage resolution          | 1 mV                    |
| Voltage accuracy            | ±3 mV                   |
| pH temp. compensation       | yes                     |
| Temperature measuring range | 0 to +60 °C             |
| Temperature resolution      | 0.1 °C                  |
| Temperature accuracy        | ±1 °C                   |
| Calibration points          | 1/2/3                   |
| Data memory                 | 25 datasets             |
| IP rating                   | 67                      |
| Replaceable electrode       | Yes                     |
| Storage solution            | 3 M KCl                 |
| L x W x D                   | 177 x 43 x 29 mm        |
| Weight                      | 128 g                   |
| Power supply                | 2 x 1.5 V AAA batteries |

**Delivery incl.** buffer tablets (pH 4, 7 and 10, 10 pieces each), carrying strap, plastic box and batteries.

| Type  | Art. No. | Pack Qty. |  |
|-------|----------|-----------|--|
| SD 50 | YP28.1   | 1 unit(s) |  |

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