Application Range

| Standard Measuring Range: | 5 to 80 ppm |
| :--- | :--- |
| Number of Strokes n: | 3 |
| Time for Measurement: | approx. 30 s |
| Standard Deviation: | $\pm 10$ to $15 \%$ |
| Color Change: | blue violet $\rightarrow$ yellow |

Ambient Operating Conditions

| Temperature: | 10 to $40^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Absolute Humidity: | $<30 \mathrm{mg} \mathrm{H}_{2} \mathrm{O} / \mathrm{L}$ |

## Reaction Principle

$\mathrm{CH}_{3} \mathrm{COOH}+\mathrm{pH}$ Indicator $\rightarrow$ yellow reaction product

## Cross Sensitivity

It is impossible to measure acetic acid in the presence of other acids.

Organic acids are indicated by the same color change, but with different sensitivities.

Mineral acids (e.g. hydrochloric acid) are indicated by red discolorations and different sensitivities.


## Formic Acid 1 to 20 g/L

Order No. 6722101

## Application Range

Determination of formic acid in water/waste water

Dräger-Tube:
Acetic Acid 5/a
Measuring range: 0.5 to $15 \mathrm{~g} / \mathrm{L}$

Number of Strokes (n): 10
Typical Stroke Time: 10 to 30 s

Measurement Time: approx. 200 s
Sample Volume:
Color Change:
Temperature Range:
200 mL
blue violet $\rightarrow$ yellow
5 to $25^{\circ} \mathrm{C}$
pH-Measurement:
necessary

Information of Measurement
Using sulfuric acid, the pH -value has to be adjusted to the value of 1.3.

System Parameters (valid for pH 1.3)

| Measurement | Standard | Temperature | Parameters |  |
| :---: | :---: | :---: | :---: | :---: |
| Range [g/L] | Deviation [\%] | [ ${ }^{\text {C }}$ ] | B | C |
| 8.5 to 15 | 25 | 10 to 25 | 0.241 | 1.157 |

## Evaluation of Measurement

Calculate formic acid concentration:

$$
Y_{[g / L]}=A \cdot B \cdot\left(X_{[p p m]}+C\right)
$$

## Propionic Acid 0.3 to $10 \mathrm{~g} / \mathrm{L}$

Order No. 6722101

| Application Range |  |
| :--- | :--- |
| Determination of propionic acid in water/waste water |  |
| Dräger-Tube: | Acetic Acid $5 / \mathrm{a}$ |
| Measuring range: | 0.3 to $10 \mathrm{~g} / \mathrm{L}$ |
| Number of Strokes (n): | 10 |
| Typical Stroke Time: | 10 to 30 s |
| Measurement Time: | approx. 200 s |
| Sample Volume: | 200 mL |
| Color Change: | blue violet $\rightarrow$ yellow |
| Temperature Range: | 10 to $30^{\circ} \mathrm{C}$ |
| pH-Measurement: | necessary |

## Information of Measurement

Using sulfuric acid, the pH -value has to be adjusted to the value of 1.3.

System Parameters (valid for pH 1.3)

| Measurement <br> Range <br> [g/L] | Standard <br> Deviation <br> [\%] | Temperature <br> $\left[{ }^{\circ} \mathrm{C}\right]$ | Parameters <br> B |  |
| :---: | :---: | :---: | :---: | :---: |
| 0.3 to 10 | 25 | 10 to 30 | 0.153 | 0.687 |

## Evaluation of Measurement

Calculate propionic acid concentration:
$Y_{[g / L]}=A \cdot B \cdot\left(X_{[p p m]}+C\right)$

Cross Sensitivity
Acetic acid and formic acid are indicated with lower sensitivity.


## Organic Acids 0.5 to $15 \mathrm{~g} / \mathrm{L}$

Order No. 6722101
Application Range
Determination of sum parameter acetic acid, formic acid and propionic acid in water/waste water

Dräger-Tube:
Measuring range:
Number of Strokes ( n ):
Typical Stroke Time:
Measurement Time:
Sample Volume:
Color Change:
Temperature Range:
pH-Measurement:

Information of Measurement
Using sulfuric acid, the pH -value has to be adjusted to the value of 1.3.

System Parameters (valid for pH 1.3)

| Measurement <br> Range <br> $[\mathrm{g} / \mathrm{L}]$ | Standard <br> Deviation <br> $[\%]$ | Temperature <br> $\left[{ }^{\circ} \mathrm{C}\right]$ | Parameters <br> B |  |
| :---: | :---: | :---: | :---: | :---: |
| 0.5 to 15 | 25 | 10 to 25 | 0.241 | 1.157 |

Evaluation of Measurement
Calculate acid concentration:

$$
Y_{[g / L]}=A \cdot B \cdot\left(X_{[p p m]}+C\right)
$$



