

Detector Tube

Acetaldehyde-100

Part No.: D7086905



Instructions for Use

1 Application

Detection of Acetaldehyde, in air or in technical gases.

2 Detector Tube Sampling Pump

KWIKDRAW Pump, Gas-Tester IIH, Gas-Tester I, Toximeter III. Observe respective instructions for use.

3 Measuring Range

100 to 1000 ppm Acetaldehyde at n=20 (20 strokes).

4 Chemical Reaction and Color Change

Oxidation of Acetaldehyde by a chromate/sulphuric acid agent.

Color change: Orange → Green/Brown

5 Sampling Procedure

- Check detector tube pump for leakage.
- Break off both the tips of the tubes.
- Insert tube tightly into pump. Arrow on tube must point toward pump.
- Perform 20 strokes.
- Read concentration at end of color zone within 2 minutes after sampling.
- Used detector tubes can not be used repeatedly.
- Duration of one pump stroke: 20....30 seconds.

6 Ambient Conditions During Sampling

- Detector tubes can be used without compensation of the reading between 0 °C and 40 °C (32 °F and 104 °F) and up to 90% RH (46 g/m³ at 40 °C [104 °F]).

- Pressure compensation:

Multiply reading (in %) with compensation factor F.

$$F = \frac{1013 \text{ (mbar)}}{\text{actual atm. pressure (mbar)}} = \frac{760 \text{ (mm Hg)}}{\text{actual atm. pressure (mm Hg)}}$$

7 Interferences and Cross Sensitivities

Petroleum hydrocarbon, alcohols, Aromatic hydrocarbons, Esters and ketone are indicated. The sensitivity of indication is different.

8 Overall Uncertainty

Up to ±15 to 25 % (expressed as relative standard deviation)

9 Storage and Transport

Up to 25°C (77°F) and protected from light.

Expiration date: see back of package.

10 Safety Advice / Disposal

For tubes contents the following indications of danger apply: H302, H312, H332, H314, H335, P260, P262, P351.

Keep tubes out of reach of unauthorized persons, especially children : P-102

Dispose of used tubes according to local regulations, apply: P501a.

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