

# Information Data Sheet

**Detector Tube Acrolein-0.1**

**Part No. (US): 10017882**

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**1. Application**

Detection of acrolein ( acrylic aldehyde,  $C_3H_4O$  ) in air or technical gases.

**2. Detector Tube Sampling Pump**

KWIK DRAW( formerly MSA AUER) Gas-Tester<sup>®</sup> IIH, Gas-Tester<sup>®</sup> I / ThumbPump<sup>™</sup>-Sampler, Toximeter<sup>®</sup> II, Uniphos Kwik-Draw<sup>™</sup>-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

**3. Measuring Range**

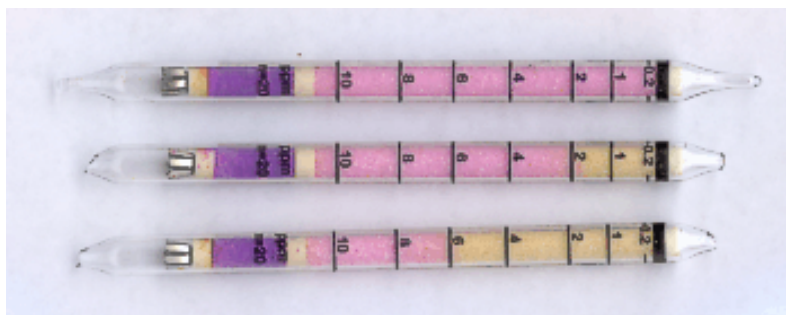
(0.2 ... 10 ) ppm acrolein at 20 pumpstrokes (n=20)

0.1 ppm acrolein at 40 pumpstrokes are equivalent to 0.2 ppm on the n=20-scale.

**4. Chemical Reaction and Color Change**

Reaction of acrolein with permanganate.

Color change: pink → light brown/yellow.



**5. Ambient Conditions During Sampling**

Detector tubes can be used without compensation of the reading between 5 °C (41 °F) and 35 °C (95 °F). Water vapor between 2 and 20 g H<sub>2</sub>O/ m<sup>3</sup> ( 30 % rh at 5 °C [41 °F]; 8.7% rh up to 87 % rh at 25 °C [77 °F]; 51 % rh at 35 °C [95 °F]) will not affect the stain length.

**6. Interferences and Cross Sensitivities**

Many organic compounds with C=C-double bonds are also indicated.

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