

Information Data Sheet

Detector Tube Acrolein-0.1

Part No. (US): 10017882

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1. Application

Detection of acrolein (acrylic aldehyde, C₃H₄O) in air or technical gases.

2. Detector Tube Sampling Pump

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

3. Measuring Range

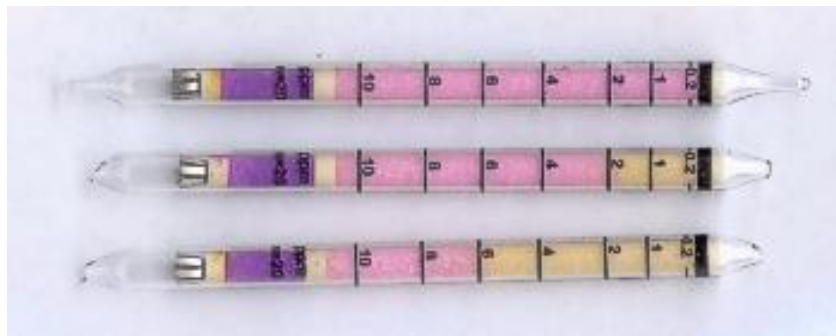
(0.2 ... 10) ppm acrolein at 20 pumpstrokes (n=20)

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 H₂O/ m³ (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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