

Information Data Sheet

Detector Tube Ethylene-50

Part No. (US): 804428

Part No. D5086833

1. Application

Detection of ethylene (C₂H₄) in air or technical gases.

2. Detector Tube Sampling Pump

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

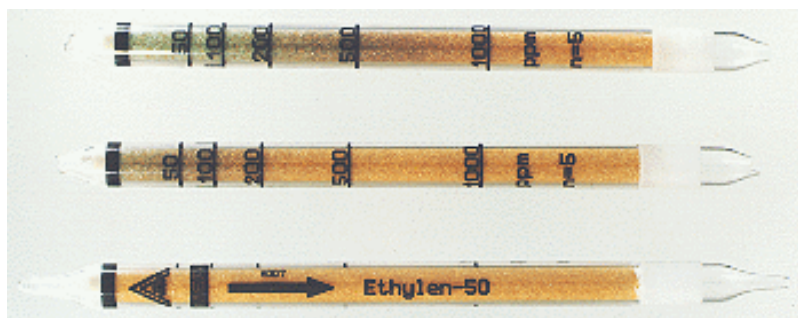
3. Measuring Range

50 ppm ... 1,000 ppm ethylene at n=5 (5 pump strokes).

4. Chemical Reaction and Color Change

Oxidation of ethylene by a chromate/sulfuric acid reagent.

Color change: orange → green/brown



5. 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)].

6. Interferences and Cross Sensitivities

- No interference from:
 - hydrogen, methane, ethane, carbon monoxide, carbon dioxide.
 - sulfur dioxide, nitrogen dioxide up to 1000 ppm.
- Propane, butanes, acetylene discolor the whole indicating layer, a sharp stain edge is not formed.
- Higher saturated hydrocarbons (e.g. hexanes, octanes), aromatic hydrocarbons (e.g. benzene), hydrogen sulfide are indicated. The sensitivity of indication is different.

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