

Information Data Sheet

Action Detector Tube H₂S-A
Part No. (US): 804434
Part No. D5085764

1. Application

Quick orientative check of ambient atmosphere for hazardous hydrogen sulfide (H₂S) concentrations.

2. Detector Tube Sampling Pump

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

The action detector tube has two marks conforming the following concentrations:

Mark 1: 10 ppm hydrogen sulfide at n=2 (2 strokes).
Mark 2: 50 ppm hydrogen sulfide at n=2 (2 strokes).

4. Chemical Reaction and Color Change

Reaction of hydrogen sulfide with lead compound forming lead sulfide.
Color change: white → brown



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 0 °C and 50 °C (32 °F and 120 °F) and between 10% rh [0.5 g/m³ at 0 °C (32 °F)] and 90% rh [75 g/m³ at 50 °C (120 °F)].

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
 - acetylene up to 5 vol %.
 - higher saturated hydrocarbons (e.g. hexanes, octanes), olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene) up to 1 vol %.
 - sulfur dioxide, carbon disulfide, nitric oxide, phosphine up to 5000 ppm.
 - hydrogen chloride, hydrogen cyanide, phosgene up to 100 ppm.
- b) Halogens (chlorine, bromine), nitrogen dioxide, ammonia are not indicated but will shorten stain length of hydrogen sulfide even when concentrations correspond to measuring range of detector tube.

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