

# Information Data Sheet

**Action Detector Tube H<sub>2</sub>S-A**  
**Part No. (US): 804434**  
**Part No. D5085764**

## 1. Application

Quick orientative check of ambient atmosphere for hazardous hydrogen sulfide (H<sub>2</sub>S) concentrations.

## 2. Detector Tube Sampling Pump

UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester<sup>®</sup> I/H, 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

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/m<sup>3</sup> at 0 °C (32 °F)] and 90% rh [75 g/m<sup>3</sup> 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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