

# Information Data Sheet



**Detector Tube    Arsine-0.05**

**Part No. (US):    10072098**

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## 1. Application

Detection of arsine ( $\text{AsH}_3$ ) in air or in technical gases.

## 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

0.05 ppm ... 1 ppm arsine at n=10 (10 strokes)

## 4. Chemical Reaction and Color Change

Reaction of arsine with silver compound forming metallic silver.

Color change:    white        →        brown

## 5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of reading between 0 °C and 40 °C (32 °F and 104 °F) and between 10 % rh (0.5 g/m<sup>3</sup> at 0 °C [32 °F]) and 90 % rh (46 g/m<sup>3</sup> at 40 °C [104 °F]).

## 6. Interferences and Cross Sensitivities

- a) No interference from:
  - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
  - higher saturated hydrocarbons (e. g. hexanes, octanes), olefinic hydrocarbons (e. g. ethylene) aromatic hydrocarbons (e. g. benzene) up to 0,5 vol.% (n=10).
  - sulfur dioxide, carbon disulfide up to 500 ppm (n=10).
- b) Phosphine gives a stain about twice as long as arsine
- c) Hydrogen sulfide will be indicated by a yellow-brown stain, significantly lighter than arsine stain and with a similar stain length.
- d) Acetylene will not be indicated.

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