

# Information Data Sheet

## Action Detector Tube SO<sub>2</sub>-A

Part No. (US): 804432

Part No. D5085763

### 1. Application

Quick orientative check of ambient atmosphere for hazardous sulfur dioxide (SO<sub>2</sub>) concentrations.

### 2. Detector Tube Sampling Pump

KWIK DRAW (formerly MSA AUER) Gas-Tester® I/H, 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: 2 ppm sulfur dioxide at n=2 (2 strokes).

Mark 2: 10 ppm sulfur dioxide at n=2 (2 strokes).

### 4. Chemical Reaction and Color Change

Reaction of sulfur dioxide with iodine. Iodine will be reduced to iodide.

Color change: violet → white.



### 5. Ambient Conditions During Sampling

Detector tubes can be used between 10°C and 30°C (50°F and 86°F) and between 10% rh (0.9 g/m<sup>3</sup> at 10°C [50°F]) and 90% rh (27 g/m<sup>3</sup> at 30°C [86°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), aromatic hydrocarbons (e.g. benzene) up to 1 vol.%.
- hydrogen sulfide up to 150 ppm. Hydrogen sulfide discolors the protective layer from light blue to brown.
- hydrogen chloride, hydrogen cyanide, phosgene up to 25 ppm.

b) Chlorine, ammonia, nitrogen dioxide, olefinic hydrocarbons (e.g. ethylene) are not indicated but possibly will shorten indication stain of sulfur dioxide even when concentrations correspond to the measuring range of detector tube.

*Manufactured By:*

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