

# Information Data Sheet

**Detector Tube SO2-5**

**Part No. (US): 497662**

**Part No. D5085813**

## 1. Application

Detection of sulfur dioxide (SO<sub>2</sub>) in air or in technical gases.

## 2. Detector Tube Sampling Pump

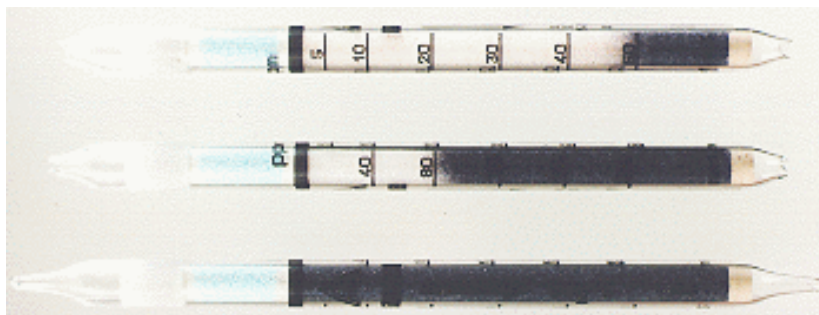
UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester<sup>®</sup> IIH, Gas-Tester<sup>®</sup> I / ThumbPump<sup>™</sup>-Sampler, Toximeter<sup>®</sup> II, Uniphos Kwik-Draw<sup>™</sup>-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

## 3. Measuring Range

40 ppm ... 200 ppm sulfur dioxide at n=1 (1 stroke).  
5 ppm ... 50 ppm sulfur dioxide at n=3 (3 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 1000 ppm.
  - hydrogen sulfide up to 200 ppm. Hydrogen sulfide will be retained by the protective layer changing its color (light blue Y brown). Do not use the detector tube if protective layer has totally change its color.
  - hydrogen chloride up to 50 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. .

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