

# Information Data Sheet

**Detector Tube    Ozone-0.05**

**Part No. (US):    804140**

**Part No.            D5086828**

## 1. Application

Detection of ozone (O<sub>3</sub>) in air or in technical gases.

## 2. Detector Tube Sampling Pump

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.

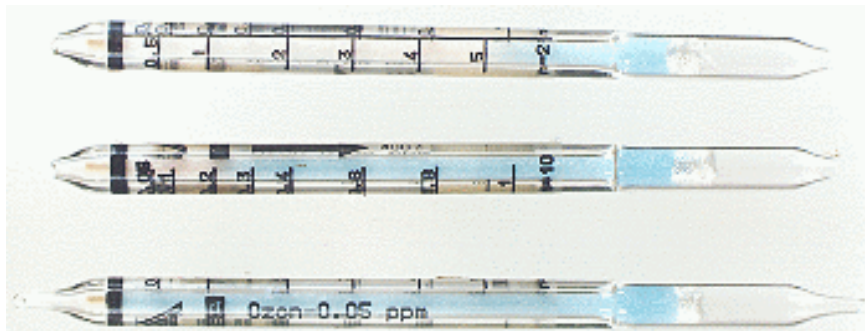
## 3. Measuring Range

(0,5 ... 5) ppm    ozone at n=2 (2 strokes).  
(0,05 ... 1) ppm    ozone at n=10 (10 strokes).

## 4. Chemical Reaction and Color Change

Oxidation of indigotine to isatine by ozone.

Color change:    Light blue    →    White.



## 5. Ambient Conditions During Sampling

• Detector tubes can be used between 0° C and 40° C (32° F and 104° F) and between 20 % RH (1.0 g/m<sup>3</sup> at 0 °C [32° F]) and 80 % RH (41 g/m<sup>3</sup> at 40° C [104° F]).

## 6. Interferences and Cross Sensitivities

- a) No interference from:
  - Carbon dioxide, as well in concentrations above 50 Vol.%.
  - Sulfur dioxide up to 1 ppm (n=10).
- b) Nitrogen dioxide and chlorine in concentrations up to 1 ppm (n=10) do not interfere. Higher concentrations discolour indicating layer to diffusive white or light grey.

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