

# Information Data Sheet

**Detector Tube**      **Cl<sub>2</sub>-0.2**  
**Part No. (US):**      **803944**  
**Part No.**              **D5085801**

## 1. Application

Detection of chlorine (Cl<sub>2</sub>) 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

0.2 ppm ... 3 ppm chlorine at n=10 (10 strokes)

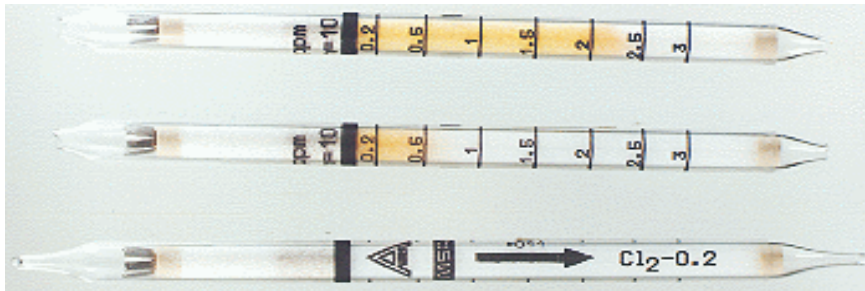
Any number of strokes from 1 to 10 can be chosen. For calculation use n=10 scale, relate as follows:

$$\text{ppm Cl}_2 = \frac{10 \times \text{indication on n=10 scale}}{\text{no. of strokes chosen}}$$

## 4. Chemical Reaction and Color Change

Oxidation of an aromatic amine by chlorine.

Color change:    white      →    orange / yellow.



## 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 80 % rh (41 g/m<sup>3</sup> at 40 °C [104 °F]).

## 6. Interferences and Cross Sensitivities

- No interference from:
  - methane, ethane, propane, carbon monoxide.
  - hydrogen, carbon dioxide up to 10 vol. % (n=10).
  - olefinic hydrocarbons (e.g. ethylene) aromatic hydrocarbons (e.g. benzene), hydrogen chloride, phosgene up to 1000 ppm (n=10).
- Sulfur dioxide, hydrogen sulfide, hydrogen cyanide, ammonia are not indicated but will decrease stain length of chlorine indication even when concentrations correspond to measuring range of detector tube.
- Chlorine dioxide, bromine, ozone, nitrogen dioxide will be indicated. The sensitivity of indication is different.  
Up to 3 ppm (n=10) the detector tube scale is applicable for bromine as well as for chlorine. Higher concentrations of bromine are indicated.

*Manufactured By:*

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