

# Information Data Sheet

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

**Part No. (US): 804412**

**Part No. D5085757**

### 1. Application

Quick orientative check of ambient atmosphere for hazardous Chlorine (Cl<sub>2</sub>) concentrations.

### 2. Detector Tube Sampling Pump

KWIK DRAW pump, 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

The action detector tube has two marks conforming the following concentrations:

Mark 1: 0.5 ppm chlorine at n=2 (2 strokes).

Mark 2: 2.5 ppm chlorine at n=2 (2 strokes).

### 4. Chemical Reaction and Color Change

Reaction of carbon dioxide with hydrazine. Change of pH-value causes color change of an acid-base indicator.

Color change: white → Orange/yellow

### 5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the 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)]. Do not use detector tube if protective layer has totally changed from dry to wet by water vapor.

### 6. Interferences and Cross Sensitivities

a) No interference from:

– methane, ethane, propane, carbon dioxide.

– hydrogen, carbon monoxide up to 10 vol %.

– higher saturated hydrocarbons (e.g. butanes, octanes), olefinic hydrocarbons (e.g. ethylene) aromatic hydrocarbons (e.g. benzene), hydrogen chloride, phosgene up to 1000 ppm.

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– nitric oxide, ammonia, phosphine up to 500 ppm

b) Sulphur dioxide, hydrogen sulphide, hydrogen cyanide, ammonia are not indicated but will shorten stain length of chlorine indication even when concentrations correspond to measuring range of detector tubes.

c) Chlorine dioxide, bromine, ozone, nitrogen dioxide will be indicated. The sensitivity of indication is different.

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