

# Information Data Sheet

**Detector Tube HCl-1**

**Part No. (US): 803948**

**Part No. D5085846**

## 1. Application

Detection of hydrogen chloride (hydrochloric acid gas, HCl) in air or 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.

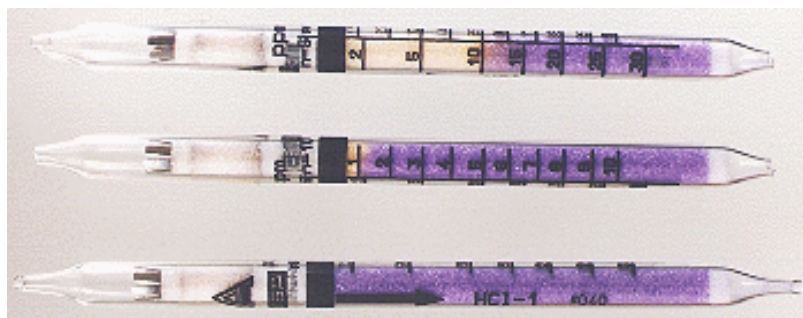
## 3. Measuring Range

5 ppm ... 50 ppm hydrogen chloride at 2 pumpstrokes (n=2).  
1 ppm ... 10 ppm hydrogen chloride at 10 pumpstrokes (n=10).

## 4. Chemical Reaction and Color Change

Change of pH-value causes color change of an acid-base-indicator.

Color change: blue → yellow



## 5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 10 °C and 35 °C (50 °F and 95 °F) and between 20 % rh (19 g/m<sup>3</sup> at 10 °C [50 °F]) and 80 % rh (32 g/m<sup>3</sup> at 35 °C [95 °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), olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene) up to 5000 ppm (n=10).
  - nitrogen dioxide, sulfur dioxide, hydrogen sulfide up to 125 ppm (n=2) resp. 25 ppm (n=10).
- b) Chlorine will be indicated. To distinguish between hydrogen chloride and chlorine use detector tube Cl<sub>2</sub>-0,2 (part no. 803944) which detects only chlorine.

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