

# Information Data Sheet

**Detector Tube**      **Per-10**  
**Part No. (US):**    **487337**  
**Part No.**            **D5085840**

## 1. Application

Detection of perchloroethylene (tetrachloroethylene, C<sub>2</sub>Cl<sub>4</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.

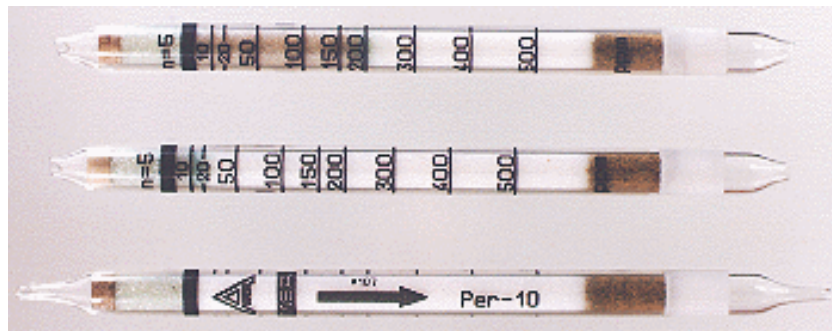
## 3. Measuring Range

10 ppm ...500 ppm perchloroethylene at n=5 (5 strokes).

## 4. Chemical Reaction and Color Change

Oxidation of perchloroethylene by iodine pentoxide in fuming sulfuric acid.

Color change:    White      →    Green or Brown / green.



## 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 up to 90 % rh (46 g/m<sup>3</sup> at 40 °C [104 °F]). Water vapour will be absorbed by the protective layer changing its color from light green to green. Do not use detector tube if protective layer has totally changed color.

## 6. Interferences and Cross Sensitivities

- a) No interference from:
  - methane, carbon dioxide.
  - hydrogen, ethane, carbon tetrachloride, fluorinated methanes, fluorinated ethanes up to 1 vol. %.
- b) Higher saturated hydrocarbons (e.g. propane, hexanes), olefinic hydrocarbons (e.g. ethylene), acetylene, easily oxidizable halogenated hydrocarbons (e.g. chloroform, trichloroethylene), carbon monoxide, hydrogen sulfide, carbon disulfide and many other oxidizable gases and vapors will be indicated. The sensitivity of indication varies.
- c) Free halogens (chlorine, bromine) will only be indicated in concentrations in which they themselves are very hazardous.

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