

# 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

UNIPHOS 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.

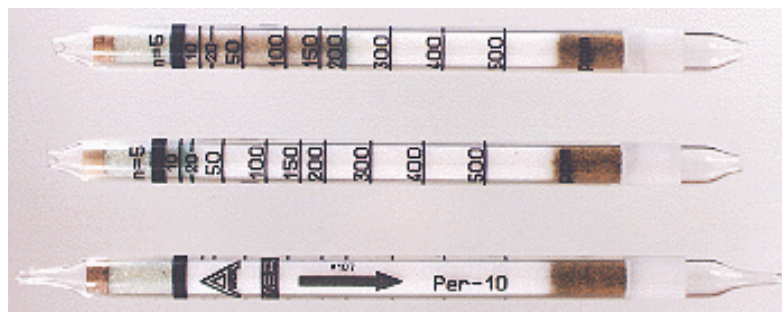
## 3. Measuring Range

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 resp. 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 vapor 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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