

Information Data Sheet

Detector Tube VC-1

Part No. (US): 803950

Part No. D5085837

1. Application

Detection of vinyl chloride (C₂H₃Cl) in air or in technical gases.

2. Detector Tube Sampling Pump

UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester[®] I/H, 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

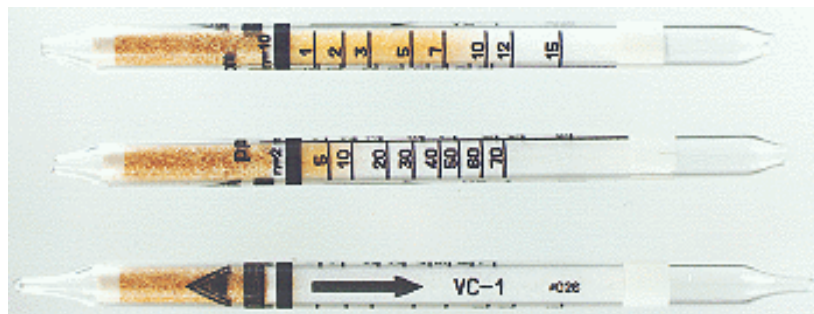
(5 ... 70) ppm vinyl chloride at 2 pump strokes (n = 2).

(1 ... 15) ppm vinyl chloride at 10 pump strokes (n = 10).

4. Chemical Reaction and Color Change

Oxidative decomposition of halogenated hydrocarbons in the conversion layer by a chromate sulfuric acid reagent, forming chlorine or bromine. Oxidation of an aromatic amine by chlorine resp. bromine in the indicating layer.

Color change: white → orange



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 5 °C and 35 °C (40 °F and 95 °F) and between 10% rh [0.7 g/m³ at 5 °C (40 °F)] and 90% rh [36 g/m³ at 35 °C (95 °F)].

6. Interferences and Cross Sensitivities

- No interference from:
 - hydrogen, methane, ethane, carbon monoxide, carbon dioxide.
 - propane, butanes, chloromethane, dichloromethane, carbon tetrachloride, bromomethane, fluorinated methanes, fluorinated ethanes up to 5000 ppm (n = 2) or 1000 ppm (n = 10).
- Easily oxidizable halogenated hydrocarbons (e.g. trichloroethylene, dichloroethylenes, perchloroethylene), halogens (chlorine, bromine), hydrogen chloride, phosgene, nitric oxide, nitrogen dioxide will be indicated. The sensitivity of indication varies.
- In the presence of oxidizable gases and vapors (e.g. hydrocarbons, hydrogen sulfide) part of the conversion layer will be consumed. Trichloroethylene indication may be lower than actually present. High concentrations of oxidizable accompanying substances discolor conversion layer from brown to greenish. Do not use detector tube in this case.

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