

Information Data Sheet

Action Detector Tube **Halogenated Hydrocarbons-A**

Part No. (US): **804414**

Part No. **D5085771**

1. Application

Quick orientative check of ambient atmosphere for hazardous concentrations of vapors of several easily oxidizable halogenated hydrocarbons.

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

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

Mark 1: 50 ppm trichloroethylene at n=2 (2 strokes).
Mark 2: 150 ppm trichloroethylene at n=2 (2 strokes).

4. Chemical Reaction and Color Change

Oxidative decomposition of halogenated hydrocarbons in the conversation 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

- a) No interference from:
- hydrogen, methane, ethane, carbon monoxide, carbon dioxide.
 - propane, butanes, chloromethane, dichloromethane, carbon tetrachloride, bromomethane, fluorinated methanes, fluorinated ethanes up to 5,000 ppm.
 - ammonia, sulfur dioxide, hydrogen cyanide up to 100 ppm.

Manufactured By:
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- b) Higher saturated hydrocarbons (e.g. hexanes), olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene), hydrogen sulfide, carbon disulfide, alcohols, ketones, ethers, esters produce no indication. In the presence of these substances part of conversation layer will be consumed. Indication of halogenated hydrocarbons then may be lower than actually present. High concentrations of those accompanying substances discolor conversation layer from brown to greenish. Do not use detector tube in this case.
- c) halogens (chlorine, bromine), hydrogen chloride, phosgene, nitric oxide, nitrogen dioxide are indicated. The sensitivity varies.

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