

Information Data Sheet

Action Detector Tube Phosgen-A

Part No. (US): 804417

Part No. D5085772

1. Application

Quick orientative check of ambient atmosphere for hazardous concentrations of vapours of dichloromethane (methylene chloride, CH₂Cl₂).

2. Detector Tube Sampling Pump

KWIK DRAW pump, Gas-Tester I/H, Gas-Tester I, Toximeter III, Uniphos Kwik-Draw-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

The action detector tube has two mark conforming the following concentration:

Mark 1: 100 ppm dichloromethane at n=5 (5 strokes).

Mark 2: 500 ppm dichloromethane at n=5 (5 strokes).

4. Chemical Reaction and Color Change

Oxidative decomposition of dichloromethane in the conversion layer by a chromate/sulfuric acid reagent. Oxidation of decomposition products by iodine pentoxide in fuming sulfuric acid in the indicating layer.

Color change: White → Green/brown

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 up to 90% rh [36 g/m ³ at 35 °C (95 °F)].
6. Interferences and Cross Sensitivities	
a)	No interference from: – methane, carbon dioxide. – hydrogen, ethane, carbon tetrachloride, fluorinated methanes, fluorinated ethanes up to 1 vol.%. – ammonia, sulfur dioxide, chloromethane up to 2000 ppm – olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene), nitric oxide, nitrogen dioxide up to 500 ppm. - propane and higher saturated hydrocarbons (e.g. hexanes, octanes), hydrogen sulfide up to 200 ppm. - chlorine, hydrogen, chloride, hydrogen cyanide, phosgene up to 50 ppm.
b)	Acetylene, hydrogen disulfide, easily decomposable halogenated hydrocarbons (e.g. trichloromethane, trichloroethylene, chlorobenzene), will be indicated. The sensitivity varies. In the presence of these substances and other oxidizable gases and vapors part of conversion layer will be consumed. Indication of dichloromethane then may be lower than actually present. High concentrations of those accompanying substances discolor conversion layer from brown to greenish. Do not use detector tube in this case.
c)	Carbon monoxide will be indicated without affecting conversion layer.

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