

Information Data Sheet



Detector Tube Dichloromethane-50

Part No. (US): 804416

Part No. D5085823

1. Application

Detection of dichloromethane (methylene chloride, CH₂Cl₂) 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

100 ppm ... 1000 ppm dichloromethane at n=5 (5 strokes).

25 ppm .. 400 ppm dichloromethane at n=10 (10 Strokes).

25 ppm dichloromethane at n=10 (10 strokes) = 12.5 ppm dichloromethane at n=20 (20 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/m³ at 35 °C (95 °F)].

6. Interferences and Cross Sensitivities

a) No interference from:

-methane, carbon dioxide.

- Hydrogen, ethane, carbon tetrachloride, fluorinated methanes, fluorinated ethane up to 1 vol.% (n=10) or 5000 ppm (n=20).

- Sulphur dioxide, chloromethane up to 1000 ppm (n=10) or 500 ppm (n=20).

Manufactured By:

Uniphos Envirotronic Pvt. Ltd (100% EOU)

P.O. Nahuli - 396 108

Tal. Umbergaon,

Dist: Valsad, Gujarat, India

Tel. : +91 9909994042

Marketing Office:

Uniphos Envirotronic Pvt. Ltd

Readymoney Terrace, 167,

Dr. Annie Besant Road, Worli,

Mumbai 400 018, India.

Tel. : +91(22) 6123 3500

Fax : +91(22) 2493 8826

+91 (22) 2497 8119

gasdetection@uniphos-envirotronic.com

www.kwikdrawtubes.com

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- b) Propane and higher saturated hydrocarbons. (e.g. hexane, octanes), olefinic hydrocarbons (e.g. ethylene) acetylene, easily oxidisable halogenated hydrocarbons (trichloromethane, trichloroethylene), hydrogen sulphide, carbon disulphide and many other oxidisable gases and vapours will be indicated. Sensitivity of indication varies. In the presence of many oxidisable gases and vapours, part of the conversion layer will be consumed. Dichloromethane indication may be lower than actually present. High concentrations of oxidisable accompanying substances discolour conversion layer from brown to greenish. Do not use detector tube in this case.

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