

# Information Data Sheet

**Detector Tube**    **C<sub>6</sub>H<sub>6</sub>-1**

**Part No. (US):**    **807024**

**Part No.**            **D5086835**

## 1. Application

Detection of benzene (C<sub>6</sub>H<sub>6</sub>) in air or in technical gases.

## 2. Detector Tube Sampling Pump

UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester<sup>®</sup> IIH, Gas-Tester<sup>®</sup> I / ThumbPump<sup>™</sup>-Sampler, Toximeter<sup>®</sup> II, Uniphos Kwik-Draw<sup>™</sup>-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

## 3. Measuring Range

1 ppm ... 25 ppm benzene at n=15 (15 pump strokes).  
5 ppm ... 100 ppm benzene at n=4 (4 pump strokes).

## 4. Chemical Reaction and Color Change

Oxidation of benzene by an iodate/ sulfuric acid reagent.

Color change:    white        →        brown.



## 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]). Do not use detector tube if protective layer has totally changed from dry to wet by water vapor.

## 6. Interferences and Cross Sensitivities

- a) No interference from:
  - hydrogen, methane, ethane, carbon dioxide.
  - propane up to 2 vol. %.
- b) Higher aromatic hydrocarbons (e.g. toluene, xylenes) will be indicated by a brown discoloration.
- c) Higher saturated hydrocarbons (e.g. hexanes, octanes), olefinic hydrocarbons (e.g. ethylene), carbonmonoxide, hydrogen sulfide are indicated by a slight brown discoloration.

*Manufactured By:*  
**Uniphos Envirotronic Pvt. Ltd**  
P.O. Nahuli - 396 108  
Tal. Umbergaon,  
Dist: Valsad, Gujarat, India  
Tel. : +91(260) 2730156 / 57 / 58  
Fax : +91(260) 2730160

*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