

Information Data Sheet

Detector Tube **C₆H₆-5**
Part No. (US): **804411**
Part No. **D5085816**

1. Application

Detection of benzene (C₆H₆) in air or in technical gases.

2. Detector Tube Sampling Pump

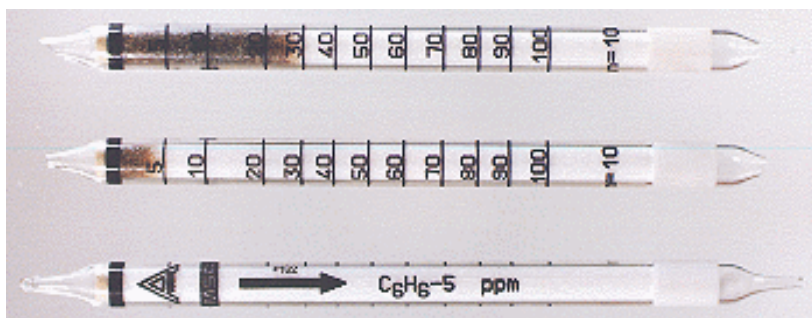
UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester[®] IIH, Gas-Tester[®] I / ThumbPump[™]-Sampler, Toximeter[®] II, Uniphos Kwik-Draw[™]-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

5 ppm ... 100 ppm benzene at n=10 (10 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 in the humidity range up to 15 g/m³ (85 % rh at 20°C [68°F], 30% rH at 40°C [104°F]).

6. Interferences and Cross Sensitivities

- No interference from:
 - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
 - sulfur dioxide, nitric oxide, nitrogen dioxide up to 1000 ppm.
- Saturated hydrocarbons (e.g. hexanes, octanes), olefinic hydrocarbons (e.g. ethylene), hydrogen sulfide, carbon disulfide will be indicated by a slight brown or pink discoloration. The benzene indication is distinctly readable against that background.
- Higher aromatic hydrocarbons (e.g. toluene, xylenes) will be indicated by a reddish brown discoloration. The sensitivity of indication is lower than for benzene.

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