

Information Data Sheet

Detector Tube Gasoline Test BNZ

Part No. (US): 804409

Part No. D5085807

1. Application

Monitoring the atmosphere for the presence of hydrocarbon (gasoline) vapors. Vapors of hydrocarbon mixtures with boiling points in the range of approx. 30 °C (86 °F) to approx. 200 °C (392 °F) can be detected, e.g. vapors of gasoline used as extraction, solvent or cleaning fluid and vapors of light volatile fuels.

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

The detector tubes have two marking rings which correspond to the following concentrations of gasoline vapors:

Marking ring "a": approx. 100 ppm

Marking ring "b": approx. 2000 ppm

These concentrations values refer to n-hexane and 2 pump strokes (n=2).

4. Chemical Reaction and Color Change

Oxidation of gasoline hydrocarbons by a chromate/sulfuric acid-reagent.

Color change: orange → green/brownish-black.



5. Ambient Conditions During Sampling

Accuracy of indication is not affected by temperatures between 0 °C ... 40 °C (32 °F ... 104 °F).

6. Interferences and Cross Sensitivities

- No interference from:
 - hydrogen, methane, ethane, carbon monoxide, carbon dioxide also in concentrations above 50 vol %.
 - sulfur dioxide, nitrogen dioxide up to min. 1000 ppm (n=10).
- Propane, butanes and acetylene will discolor the complete indicating layer without creating a color zone.
- Olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene), hydrogen sulfide will be indicated. The sensitivity varies.
- Shorter readings will result if the amount of aromatic hydrocarbons in the liquid gasoline exceeds 50 %.

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