

Information Data Sheet

Detector Tube Gasoline-100

Part No. (US): D7086865

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1. Application

Detection of gasoline vapour in air or in technical gas.

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 ... 3000 mg/m³ gasoline at n=5 (5 stroke).

The calibration of tube is done using n-Octane with molar weight of 114.23 g/mol. 1 ppm = 4.75 mg/m³, 1 mg/m³ = 0.21 ppm (20 °C/68 °F, 1013 mbar).

4. Chemical Reaction and Color Change

Oxidation of gasoline by iodine pentoxide in fuming sulfuric acid.

Color change: White → Brown/green.



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 10 °C and 30 °C (50 °F and 86 °F) and up to 90 % RH (27 g/m³ at 30 °C [86 °F]).

6. Interferences and Cross Sensitivities

- a) No interference from:
 - Hydrogen, methane, ethane, carbon dioxide, as well in concentrations above 50 vol.%.
 - sulfur dioxide, nitrogen dioxide, propane up to 1 vol.%.
 - Higher saturated hydrocarbons (e.g. hexanes), olefinic hydrocarbons (e.g. ethylene) up to 200 ppm.
- b) Carbon monoxide, hydrogen sulfide, carbon disulphide and many other oxidizable gases and vapours will give an indication. The sensitivity varies.

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