

Information Data Sheet

Detector Tube Gasoline-30

Part No. (US): 492870

Part No. D5085898

1. Application

Detection of gasoline vapor in air.

2. Detector Tube Sampling Pump

UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester[®] I/H, 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

300 ... 6000 ppm gasoline at n=1 (1 stroke).

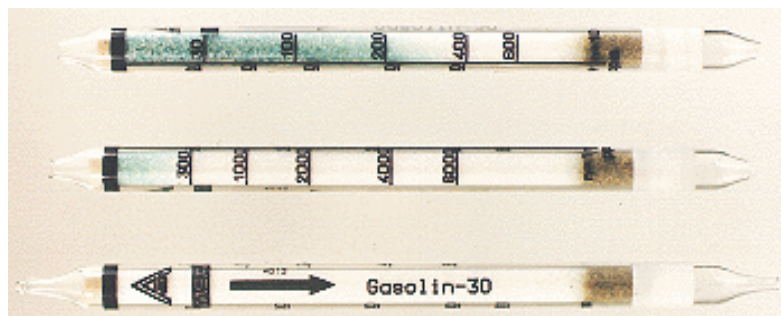
30 ... 600 ppm gasoline at n=10 (10 strokes).

The calibration of tube refers to a special mixture of hydrocarbons with a mean molar weight of 94,5 g/mol. 1 ppm = 4 mg/m³, 1 mg/m³ = 0,25 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

- No interference from:
 - methane, carbon dioxide.
 - hydrogen, ethane up to 10 vol.% (n=1) or 1 vol.% (n=10); higher concentrations discolor the whole indication layer, a sharp stain edge is not formed.
 - sulfur dioxide, nitrogen dioxide up to 1 vol.% (n=1) or 1000 ppm (n=10).
- Carbon monoxide, hydrogen sulfide, carbon disulfide and many other oxidizable gases and vapors will give an indication. The sensitivity varies.
- Saturated hydrocarbons are indicated. Referring to calibration of detector tube the sensitivity of indication will be higher for: propane, butanes, pentanes. The sensitivity will be lower for: octanes and their higher homologues. Olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene), acetylene are

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indicated with lower sensitivity.

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