

Information Data Sheet

Detector Tube Gasoline-30

Part No. (US): 492870

Part No. D5085898

1. Application

Detection of gasoline vapour in air.

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

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

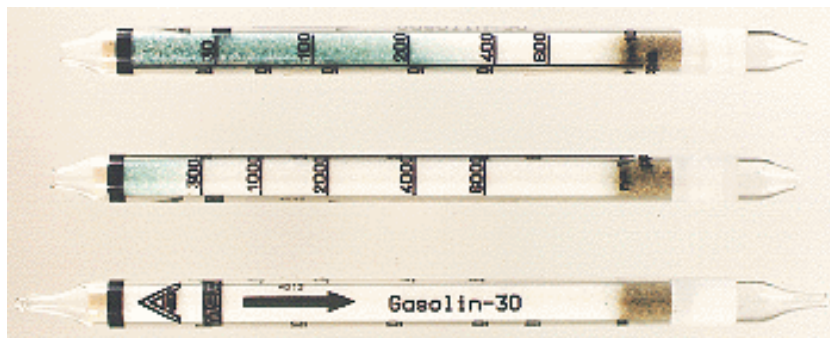
30 ... 400 ppm gasoline at n=10 (10 strokes).

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

a) No interference from:

– methane, carbon dioxide.

– hydrogen, ethane up to 10 vol.% (n=1) or 1 vol.% (n=10); higher concentrations discolour 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).

b) Carbon monoxide, hydrogen sulfide, carbon disulphide and many other oxidizable gases and vapours will give an indication. The sensitivity varies.

c) Saturated hydrocarbons are indicated. Referring to calibration of detector tube the sensitivity of indication will be higher for: propane, butanes, and pentanes. The sensitivity will be lower for: octanes and their higher homologues.

Olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene), acetylene are

Manufactured By:

Uniphos Envirotronic Pvt. Ltd (100% EOU)

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indicated with lower sensitivity.

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Rev.02/Jan17