

Information Data Sheet

Detector Tube PH₃-0.1

Part No. (US): 485680

Part No. D5085830

1. Application

Detection of phosphine (PH₃) in air or in technical gases.

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

0.1 ppm ... 10 ppm phosphine at n=10 (10 strokes)

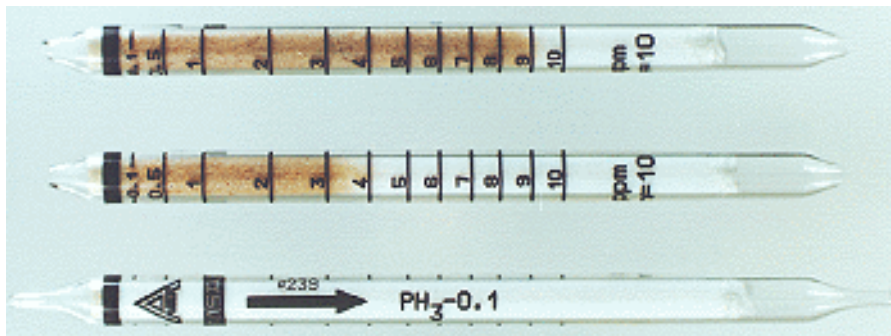
Any number of strokes from 1 to 10 can be chosen. For calculation use n=10 scale, relate as follows:

$$\text{ppm PH}_3 = \frac{10 \times \text{indication on } n=10 \text{ scale}}{\text{no. of strokes chosen}}$$

4. Chemical Reaction and Color Change

Reaction of phosphine with silver compound forming metallic silver.

Color change: White → Brown



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of reading between 0 °C and 40 °C (32 °F and 104 °F) and between 10 % rh (0.5 g/m³ at 0 °C [32 °F]) and 90 % rh (46 g/m³ at 40 °C [104 °F]).

6. Interferences and Cross Sensitivities

- No interference from:
 - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
 - higher saturated hydrocarbons (e. g. hexanes, octanes), olefinic hydrocarbons (e. g. ethylene) aromatic hydrocarbons (e. g. benzene) up to 1 vol.% (n=10).
 - Sulfur dioxide, carbon disulphide up to 1000 ppm (n=10).
- Arsine, stibine are indicated with lower sensitivity than phosphine.
- Hydrogen sulfide will be indicated by a yellow-brown stain, significantly lighter than phosphine stain and only one-half as long.
- Acetylene will not be indicated. Phosphine in acetylene gives a stain about twice as long as in air.

Manufactured By:

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