Information Data Sheet

Detector Tube PH₃-50

Part No. (US): 489119

Part No. D5085831



1. Application

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

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

50 ppm ... 2000 ppm phosphine at n=1 (1 stroke).

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

ppm PH₃ =

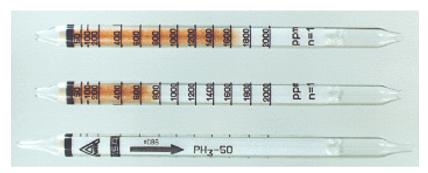
10 x indication on n=10 scale

no. of strokes chosen

4. Chemical Reaction and Color Change

Reaction of phosphine with silver compound forming metallic silver.

Color change: white \rightarrow 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

- a) No interference from:
 - 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 disulfide up to 1000 ppm (n=10).
- b) Arsine, stibine are indicated with lower sensitivity than phosphine.
- c) Hydrogen sulfide will be indicated by a yellow-brown stain, significantly lighter than phosphine stain and only one-half as long.
- d) Acetylene will no be indicated. Phosphine in acetylene gives a stain about twice as long as in air.

Manufactured By:
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