Information Data Sheet

Detector Tube PH₃-0.1

Part No. (US): 485680

Part No. **D5085830**



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

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:

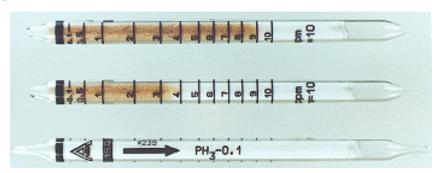
ppm PH₃ = 10 x indication on n=10 scale

no. of strokes chosen

4. Chemical Reaction and Color Change

Reaction of phosphine with silver compound forming metallic silver.

Color change: white → 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:
 - 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 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:
Uniphos Envirotronic Pvt. Ltd

P.O. Nahuli - 396 108 Tal. Umbergaon,

Dist: Valsad, Gujarat, India Tel.: +91(260) 2730156 / 57 / 58 Fax: +91(260) 2730160

gasdetection@uniphos.com

Marketing Office:

Uniphos Envirotronic Pvt. Ltd

Readymoney Terrace, 167, Dr. Annie Besant Road, Worli, Mumbai 400 018, India.

Tel.: +91(22) 6123 3500

Fax: +91(22) 2493 8826/+91 (22) 2497 8119

www.kwikdrawtubes.com