

Information Data Sheet

Detector Tube PH₃-0.05

Part No. (US): 497101

Part No. D5085829

1. Application

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

2. Detector Tube Sampling Pump

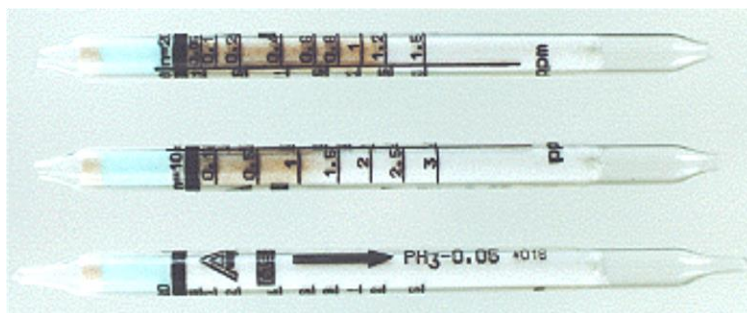
KWIK DRAW (formerly MSA AUER) Gas-Tester® IIH, Gas-Tester® I / ThumbPump™-Sampler, Toximeter® II, Kwik-Draw™-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

0.1 ppm ... 3.0 ppm phosphine at n=10 (10 pump strokes).
0.05 ppm1.5 ppm phosphine at n = 20 (20 pump strokes).

4. Chemical Reaction and Color Change

Reaction of phosphine with silver compound forming metallic silver.
Color change: White → Light brown



5. Ambient Conditions During Sampling

Detector tubes can be used between 0 °C and 40 °C (32 °F and 104 °F) and up to 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 dioxide, carbon monoxide.
 - higher saturated hydrocarbons (e. g. hexanes, octanes), olefinic hydrocarbons (e. g. ethylene) aromatic hydrocarbons (e.g. benzene) up to 1 vol% (n=10) or 5000 ppm (n=20).
 - Sulphur dioxide, carbon disulphide up to 200 ppm (n=10) or 100 ppm (n=20).
 - Hydrogen sulphide up to 50 ppm (n=10) or 25 ppm (n=20). Hydrogen sulphide discolours the protective layer from light blue to brown.
- b) Arsine, stibine are indicated with lower sensitivity than phosphine.

Manufactured By:
Uniphos Envirotronic Pvt. Ltd (100% EOU)
P.O. Nahuli - 396 108
Tal. Umbergaon,
Dist: Valsad, Gujarat, India
Tel. : +91(260) 2730156 / 57 / 58
Fax : +91(260) 2730160
gasdetection@uniphos-envirotronic.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