

Information Data Sheet

Action Detector Tube HCN-A

Part No. (US): 804415

Part No. D5085756

1. Application

Quick orientative check of ambient atmosphere for hazardous hydrogen cyanide (HCN) concentrations.

2. Detector Tube Sampling Pump

KWIK DRAW pump, Gas-Tester IIH, Gas-Tester I, Toximeter III, Uniphos Kwik-Draw-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

The action detector tube has two marks conforming the following concentrations:

Mark 1: 10 ppm hydrogen cyanide at n=2 (2 strokes).

Mark 2: 50 ppm hydrogen cyanide at n=2 (2 strokes).

4. Chemical Reaction and Color Change

Change of pH-value causes color change of an acid-base indicator.

Color change: Blue → Yellow

5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the 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, carbon monoxide.

– carbon dioxide up to 15 vol %. (n=2)

– higher saturated hydrocarbons (e.g. hexanes, octanes), olefinic hydrocarbons (e.g. ethylene) aromatic hydrocarbons (e.g. benzene), halogenated hydrocarbons (e.g. trichloromethane, trichloroethylene), nitriles (e.g. acrylonitrile), carbon disulfide, acetic acid up to 1 vol %.(n=2)

– ammonia, sulfur dioxide up to 1000 ppm. (n=2)

– hydrogen Sulphide, hydrogen chloride up to 300 ppm(n=2) Hydrogen sulfide discolors protective layer from white to brown.

– nitrogen dioxide up to 100 ppm.(n=2)

b) Free halogens (chlorine, bromine) are not indicated but will decrease stain length of hydrogen cyanide indication even when concentrations correspond to measuring range of detector tube.

Manufactured By:

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