

Information Data Sheet

Action Detector Tube Nitr-A

Part No. (US): 804427

Part No. D5085760

1. Application

Quick orientative check of ambient atmosphere for hazardous nitrous fumes (nitric oxide + nitrogen dioxide, NO + NO₂) concentrations.

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

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

Mark 1: 5 ppm nitrous fumes at n=2 (2 strokes).

Mark 2: 25 ppm nitrous fumes at n=2 (2 strokes).

4. Chemical Reaction and Color Change

Oxidation of an aromatic amine by nitrogen dioxide. Nitric oxide does not change color of the indicating layer, it has to be oxidized in the conversion layer to nitrogen dioxide.

Color change: white or light blue → dark blue



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 5 °C and 35 °C (40 °F and 95 °F) and between 10% rh [0.7 g/m³ at 5 °C (40 °F)] and 90% rh [36 g/m³ at 35 °C (95 °F)].

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, carbon monoxide, carbon dioxide.
 - nitrous oxide up to 1 vol %.
 - higher saturated hydrocarbons (e.g. butanes, octanes), aromatic hydrocarbons (e.g. benzene), sulfur dioxide up to 1000 ppm.
 - hydrogen chloride, hydrogen cyanide, phosgene up to 100 ppm.
- b) olefinic hydrocarbons (e.g. ethylene), hydrogen sulfide, ammonia are not indicated, but possibly will shorten the indication stain of nitrous fumes.
- c) halogens (chlorine, bromine), chlorine dioxide, ozone will be indicated. The sensitivity of indication is different.

Manufactured By:

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