

# Information Data Sheet

**Detector Tube NH<sub>3</sub>-20**

**Part No. (US): 800300**

**Part No. D5085814**

## 1. Application

Detection of ammonia (NH<sub>3</sub>) in air or in technical gases.

## 2. Detector Tube Sampling Pump

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

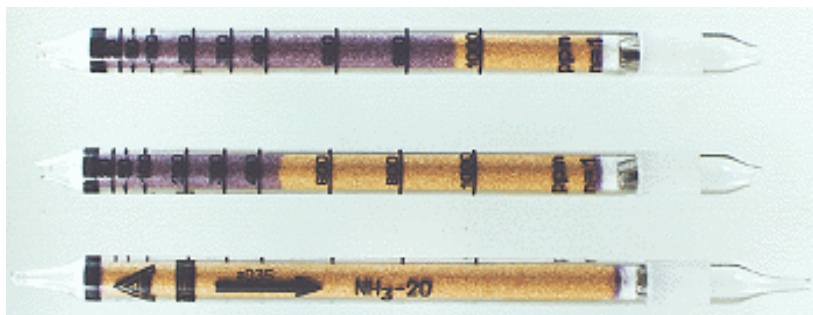
## 3. Measuring Range

(20 ... 1,400) ppm ammonia at n=1 (1 stroke).

## 4. Chemical Reaction and Color Change

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

Color change: yellow → blue.



## 5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 10 °C and 30 °C (50 °F and 86 °F) and between 20% rh [1.9 g/m<sup>3</sup> at 10 °C (50 °F)] and 80% rh [24 g/m<sup>3</sup> at 30 °C (86 °F)].

## 6. Interferences and Cross Sensitivities

- a) No interference from:
  - carbon dioxide up to 4 vol %.
  - higher saturated hydrocarbons (e.g. hexanes, octanes), olefinic hydrocarbons (e.g. ethylene), aromatic hydrocarbons (e.g. benzene) up to 1 vol %.
  - hydrogen sulfide, nitrogen dioxide up to 1,000 ppm.
- b) Other alkaline gases (amins, hydrazine) will be indicated. The sensitivity of indication is different.
- c) Strong acidic gases (e.g. sulfur dioxide, hydrogen chloride, chlorine, phosgene) are not indicated but will shorten stain length of ammonia even when concentrations correspond to measuring range of detector tube.

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