

Information Data Sheet

Detector Tube **NH₃-20**

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

Part No. **D5085814**

1. Application

Detection of ammonia (NH₃) in air or in technical gases.

2. Detector Tube Sampling Pump

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

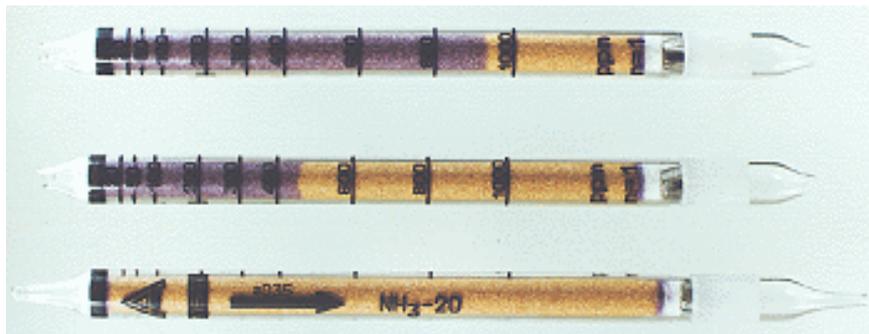
3. Measuring Range

(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/m³ at 10 °C (50 °F)] and 80% rh [24 g/m³ at 30 °C (86 °F)].

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, butanes, carbon monoxide.
 - 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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