

Information Data Sheet

Detector Tube **Nitr-50**
Part No. (US): **804426**
Part No. **D5085809**

1. Application

Detection of nitrous fumes (nitric oxide + nitrogen dioxide, NO + NO₂) 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

50 ... 3000 ppm nitrous fumes at n=1 (1 strokes).

4. Chemical Reaction and Color Change

Nitrogen dioxide reacts with o-toluidine to produce yellowish orange stain.

Nitric oxide is oxidised with CrO₃ to produce Nitrogen dioxide and this NO₂ reacts with o-toluidine to produce yellowish orange stain.

Color change: Yellow → Yellowish orange



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

Halogens (chlorine, bromine), chlorine dioxide, ozone will be indicated. The sensitivity varies.

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