

# Information Data Sheet

**Detector Tube    Acetone-100**

**Part No. (US):    804141**

**Part No.            D5086829**

**1. Application**

Detection of acetone (propanone, C<sub>3</sub>H<sub>6</sub>O) in air or in technical gases.

**2. Detector Tube Sampling Pump**

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**

100 ... 10,000 ppm    acetone at n=6 (6 strokes).

**4. Chemical Reaction and Color Change**

Reaction of acetone with 2.4-dinitrophenylhydrazine forming an hydrazone.

Color change:    Light yellow    →    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 up to 90% RH [46 g/m<sup>3</sup> at 40 °C (104 °F)].

**6. Interferences and Cross Sensitivities**

a) No interference from:  
– alcohols and esters.

b) Aldehydes and other ketones will be indicated. The sensitivity of indication is different. Ammonia interferes with the reading by a yellow-brown discoloration of the indication layer.

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