

Information Data Sheet

Detector Tube Acetic acid-1

Part No. (US): 804138

Part No. D5086821

1. Application

Detection of acetic acid (CH_3COOH) in air or in technical gases.

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

5 ppm ... 80 ppm acetic acid at n=1 (1 strokes)

1 ppm ... 15 ppm acetic acid at n=5 (5 strokes)

4. Chemical Reaction and Color Change

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

Color change: Pink → Yellow.



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 10 % RH (0.9 g/m³ at 10 °C [32 °F]) and 80 % RH (24 g/m³ at 30 °C [86 °F]).

6. Measurement of Formic Acid

Perform 1 or 5 strokes. Take reading at the end of color zone from corresponding acetic acid scale.

Take formic acid concentration (HCOOH_2) equivalent to the indicated acetic acid value (CH_3COOH) from the table.

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n=1	C (Acetic Acid) (ppm)	5	10	20	40	60	80	
	C (Formic Acid) (ppm)	10	20	40	80	120	160	
n=5	C (Acetic Acid) (ppm)	1	2	4	6	8	10	12
	C (Formic Acid) (ppm)	2	4	8	12	16	20	24

7. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
 - Benzene, toluene, higher saturated hydrocarbons (e. g. butanes, octanes), methanol up to 1000 ppm.
- b) Unsaturated hydrocarbons (e. g. butadiene) are indicated. The sensitivity of indication is different.
- c) Alkaline gases (e.g. ammonia, amines) are not indicated but will decrease stain length of acetic acid indication.

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