

### Performance

Measuring range	5 to 10 ppm	10 to 300 ppm	300 to 750 ppm
Number of pump strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)
Correction factor	0.5	1	2.5
Sampling time	6 min	3 min	1.5 min

Detecting limit: 2 ppm (4 pump strokes)

Colour change : Yellow → Red

Operating conditions: Temperature 0 to 40 °C (32 to 104 °F) correction not used

Relative humidity 0 to 90 % correction not used

Relative standard deviation: 10 % (for 10 to 100 ppm), 5 % (for 100 to 300 ppm)

Tube quantity and number of tests per box: 10 tubes for 10 tests

Shelf life: 36 months (in the refrigerator)

# Reaction principle

 $3CH_3CHO + (NH_2OH)_3 \cdot H_3PO_4 \rightarrow H_3PO_4$ 

H<sub>3</sub>PO<sub>4</sub> + Base → Phosphate

# Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acetone	≥ 2 times	+	]
Acrolein	≥ 3/5	+	D-4
Methyl ethyl ketone	≥ 6 times	+	Red
Methyl isobutyl ketone	≥ 10 times	+	J
Ammonia		_	No

#### Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Diacetyl	by scale	3	25 to 1500 ppm

### Calibration gas generation

Diffusion tube method