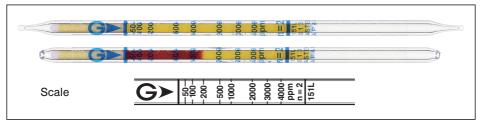
# Acetone CH3COCH3



#### Performance

Measuring range	50 to 4000 ppm	4000 to 12000 ppm
Number of pump strokes	2(200 mL)	1(100 mL)
Correction factor	1	3
Sampling time	4 min	2 min

Detecting limit: 5 ppm (2 pump strokes)

Colour change : Yellow → Red

Operating conditions : Temperature 0 to 40  $^{\circ}$ C (32 to 104  $^{\circ}$ F) correction used

Relative standard deviation : Relative humidity 0 to 90 % correction not used 15 % (for 50 to 500 ppm) , 10 % (for 500 to 4000 ppm)

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

Shelf life: 24 months (in the refrigerator)

## Reaction principle

 $3CH_3COCH_3 + (NH_2OH)_3H_3PO_4 \rightarrow H_3PO_4$ 

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

## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acetaldehyde	≥ 1/10	+	]
Acrolein	≥ 1/10	+	Dod
Methyl ethyl ketone		+	Red
Methyl isobutyl ketone		+	J
Aromatic hydrocarbons		No	No

## Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
,	Factor: 0.42	_	21 to 1680 ppm
Propionaldehyde	Factor: 0.47	2	24 to 1880 ppm

### Calibration gas generation

Diffusion tube method