



The people with the solutions that protect you and your environment everyday

## Gastec Tube Datasheet

**Acetone**

CH<sub>3</sub>COCH<sub>3</sub>

**No.GAS151L**



### Performance

<b>Measuring Range</b>	50 to 4000 ppm	4000 to 12000 ppm
<b>Number of Pump Strokes</b>	2	1
<b>Correction Factor</b>	1	3
<b>Sampling Time</b>	2 minutes per pump stroke	
<b>Detecting Limit</b>	5 ppm (n=2)	
<b>Colour Change</b>	Yellow → Red	
<b>Reaction Principle</b>	$\text{CH}_3\text{COCH}_3 + (\text{NH}_2\text{OH})_3\text{H}_3\text{PO}_4 \longrightarrow \text{H}_3\text{PO}_4 + \text{Base}$ $\longrightarrow \text{Reddish product}$	
<b>Coefficient of Variation</b>	15% (for 50 to 500 ppm), 10% (for 500 to 4000 ppm)	
<b>Shelf Life</b>	Up to 2 Years (if in refrigerator)	
<b>Corrections for temperature &amp; humidity</b>	Temperature correction is necessary	
<b>Store the tubes in the refrigerator to keep at 10°C (50°F) or below.</b>		

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Acrolein, Acetaldehyde	≥1/10 time	Plus error	Produce reddish stain
Aromatic hydrocarbons	-	No effect	No discoloration
Methyl isobutyl ketone	-	Plus error	Produce reddish stain
Methyl ethyl ketone	-	Plus error	Produce reddish stain

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**Other substance measurable with this detector tube**

Substance	Correction Factor	Pump Strokes	Measuring Range
Methyl ethyl ketone	Factor: 0.42	5	21 to 1680 ppm
Propionaldehyde	Factor: 0.47	2	24 to 1880 ppm

**Calibration gas generation** Diffusion tube method

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