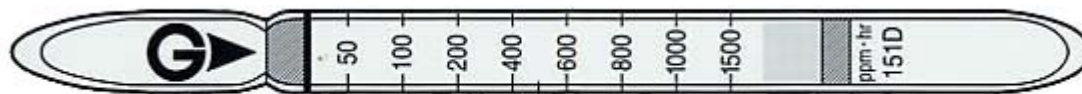


**Acetone** CH<sub>3</sub>COCH<sub>3</sub>**no.151D****Performance**

<b>Measuring Range</b>	5 to 1500 ppm
<b>Sampling Hours</b>	1 to 10 hours
<b>Detecting Limit</b>	5ppm (10 hours)
<b>Color Change</b>	Yellow → Reddish Brown
<b>Reaction Principle</b>	<p>Acetone react with hydroxylamine phosphate to librate phosphrous acid, which discolors pH indicator to reddish brown.</p> $\text{CH}_3\text{COCH}_3 + (\text{NH}_2\text{OH})_3\text{Humidity Correction}_3\text{PO}_4 \longrightarrow \text{H}_3\text{PO}_4$ $\text{H}_3\text{PO}_4 + \text{Base} \longrightarrow \text{Phosphate}$
<b>Coefficient of Variation</b>	10% (for 50 to 1500 ppm≠hr)
<b>Shelf Life</b>	2 Years
<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 (NOTE)**

Substance	Concentration	Interference	Change color by itself
Aldehydes, Ketones	-	Plus error	Discolors reddish brown
Acid gases	-	Plus error	Discolors reddish brown (Unclear demarcation)

**Other substance measurable with this detector tube**

Name of Substance	Correction Factor	Measuring Range
Methyl ethyl ketone	1.3	0.5 to 1950 ppm
Methyl isobutyl ketone	2.3	11.5 to 3450 ppm
Acetaldehyde	0.8	4 to 1200 ppm

**Calibration gas generation** Diffusion tube method

TLV to TWA	TLV to STEL	Explosive range

500ppm

750ppm

2.1 to 13%



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Policy Statement and Legal Notices

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