



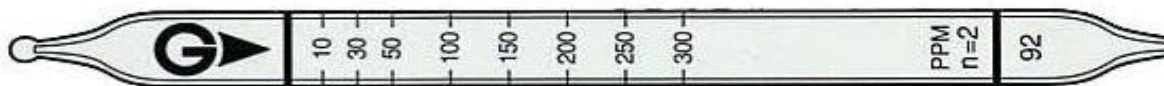
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Gastec Tube Datasheet

Acetaldehyde

CH₃CHO

No. GAS92



Performance

Measuring Range	5 to 10 ppm	10 to 300 ppm	300 to 750 ppm
Number of Pump Strokes	4	2	1
Correction Factor	0.5	1	2.5
Sampling Time	2 minutes per pump stroke		
Detecting Limit	2 ppm (n=4)		
Colour Change	Yellow → Red		
Reaction Principle	$3\text{CH}_3\text{CHO} + (\text{NH}_2\text{OH})_3\cdot\text{H}_3\text{PO}_4 \rightarrow \text{H}_3\text{PO}_4 + \text{Base} \rightarrow \text{Phosphate}$		
Coefficient of Variation	10% (for 10 to 100 ppm), 5% (for 100 to 300 ppm)		
Shelf Life	Up to 2 Years (in the refrigerator)		
Corrections for temperature & humidity	Temperature correction is necessary		

Store the tubes in the refrigerator to keep at 10°C (50°F) or below.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ammonia	-	Minus error	No discoloration
Acrolein	≥3/5 time	Plus error	Produces red stain
Acetone	≥2 times	Plus error	Produces red stain
Methyl ethyl ketone	≥6 times	Plus error	Produces red stain
Methyl isobutyl ketone	≥10 times	Plus error	Produces red stain

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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

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