

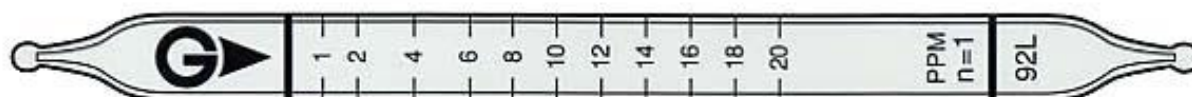


The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Acetaldehyde CH₃CHO

NO.GAS92L



Performance

Measuring Range	1 to 20ppm
Number of Pump Strokes	1
Correction Factor	1
Sampling Time	3 minutes per pump stroke
Detecting Limit	0.2 ppm (n=1)
Colour Change	Yellow → Brown
Reaction Principle	$3\text{CH}_3\text{CHO} + (\text{NH}_2\text{OH})_3 \cdot \text{H}_3\text{PO}_4 \rightarrow \text{H}_3\text{PO}_4 + \text{Base}$ → Phosphate
Coefficient of Variation	10% (for 1 to 6 ppm), 5% (for 6 to 20 ppm)
Shelf Life	Up to 2 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes in a cool and dark place	

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ammonia	≤300ppm	No error	No discoloration
Acetic acid	≥2 times	Plus error	Produces brown stain
Acids	-	Plus error	Produces brown stain
Aldehydes	-	Plus error	Produces brown stain
Ketones	-	Plus error	Produces brown stain

Calibration gas generation Diffusion tube method

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