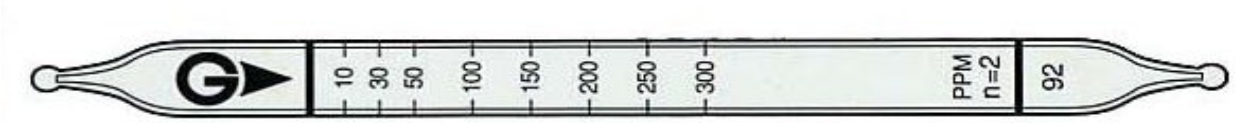
Acetaldehyde CH_3CHO NO.92



Performance

Measuring Range	5 to10 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	$3CH_3CHO + (NH_2OH)_3 \cdot H_3PO_4 \rightarrow H_3PO_4$ + Base → Phosphate		
Coefficient of Variation	10% (for 10 to 100 ppm), 5% (for 100 to 300 ppm)		
Shelf Life	2 Years		
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

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

TLV to TWA	TLV to STEL	Explosive range
-	C 25ppm	4 to 60%