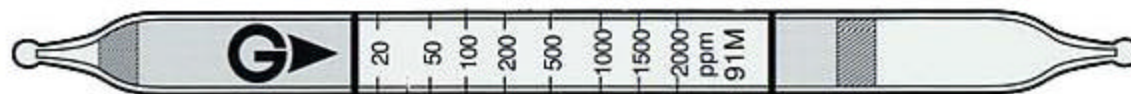


Formaldehyde

HCHO

NO.91M**Performance**

Measuring Range	8 to 20ppm	20 to 2000ppm	2000 to 6400ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	0.4	1	3.2
Sampling Time	1.5 minutes per pump stroke		
Detecting Limit	4 ppm (n=2)		
Color Change	Yellow → Red		
Reaction Principle	$3\text{HCHO} + (\text{NH}_2\text{OH})_3\text{Humidity Correction}_3\text{PO}_4 \longrightarrow \text{H}_3\text{PO}_4$ $\text{H}_3\text{PO}_4 + \text{Base} \longrightarrow \text{Phosphate}$		
Coefficient of Variation	10% (for 8 to 200 ppm), 5% (for 500 to 2000 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 (NOTE)

Substance	Concentration	Interference	Change color by itself
Acrolein	5 times	Plus error	Produces red stain at 20 ppm
Acetaldehyde	1/6 time	Plus error	Produces red stain at 3 ppm

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
-	C 0.3ppm	7.0 to 73%

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