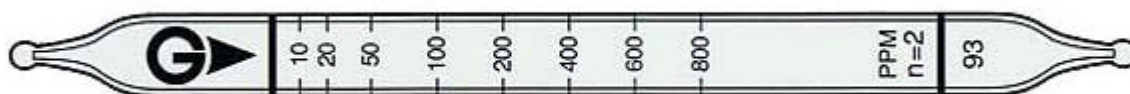


Acrolein**NO.93****Performance**

Measuring Range	3.3 to 10ppm	10 to 800ppm
Number of Pump Strokes	4	2
Correction Factor	1/3	1
Sampling Time	2 minutes per pump stroke	
Detecting Limit	2 ppm (n=4)	
Color Change	Yellow → Red	
Reaction Principle	$3\text{CH}_2\text{CHCHO} + (\text{NH}_2\text{OH})_3\text{PO}_4 \xrightarrow{\text{Humidity Correction}} \text{H}_3\text{PO}_4 + \text{Base} \rightarrow \text{Phosphate}$	
Coefficient of Variation	10% (for 10 to 200 ppm), 5% (for 200 to 800 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
Ammonia	-	Minus error	No discoloration
Sulfur dioxide	1/5 time	Plus error	No discoloration
Acetaldehyde	1/5 time	Plus error	Produces red stain
Acetone	1 time	Plus error	Produces red stain
Methyl Ethyl Ketone	3 times	Plus error	Produces red stain

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring range
Formaldehyde	25	1	250 to 20000 ppm

Calibration gas generation Diffusion tube method