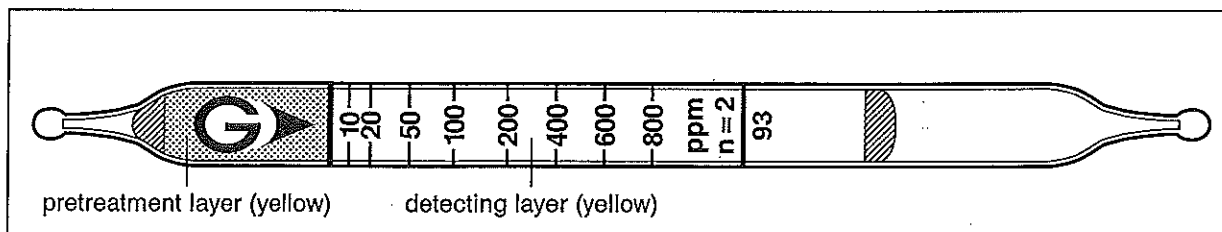


# Acrolein CH<sub>2</sub>:CHCHO

No.93



## Performance

Measuring range	3.3 to 10 ppm	10 to 800 ppm
Number of pump strokes	4 (400 ml)	2 (200 ml)
Correction factor	1/3	1
Sampling time	8 min	4 min

Detecting limit : 2ppm (4 pump strokes)

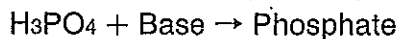
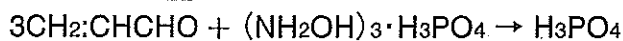
Colour change : Yellow → Red

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 10 to 200 ppm), 5 % (for 200 to 800 ppm)

Shelf life : 2 years (in the refrigerator)

## Reaction principle



## Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Acetaldehyde	≥ 1/5	+	} Red
Acetone	≥ 1/1	+	
Methyl ethyl ketone	≥ 3 times	+	
Ammonia		-	} No
Sulphur dioxide	≥ 1/5	+	

Chlorine, hydrogen chloride and nitric acid are trapped in the pretreatment (yellow) layer.

## Calibration gas generation

Diffusion tube method