

**Formaldehyde**

HCHO

**NO.91D****Performance**

<b>Measuring Range</b>	0.1 to 20 ppm
<b>Sampling Hours</b>	1 to 10 hours
<b>Detecting Limit</b>	0.05 ppm (10 hours)
<b>Color Change</b>	Yellow → Reddish Brown
<b>Reaction Principle</b>	Formaldehyde reacts with hydroxylamine phosphate to liberate phosphorous acid, which discolors pH indicator to reddish brown.
<b>Coefficient of Variation</b>	10% (for 1 to 20 ppm-hr)
<b>Shelf Life</b>	1 Year
<b>Corrections for temperature &amp; humidity</b>	Unnecessary
<b>Store the tubes in the refrigerator to keep at 10°C (50°F) or below.</b>	

**Possible coexisting substances and their interferences (NOTE)**

<b>Substance</b>	<b>Interference</b>	<b>Change color by itself</b>
Aldehydes, Ketones, Acid gases	Plus error	Discolors reddish brown

**Other substance measurable with this detector tube**

<b>Substance</b>	<b>Correction Factor</b>	<b>Sampling Time</b>	<b>Measuring Range</b>
Acetaldehyde	1.0	1 to 10 hours	0.1 to 20 ppm
Furfural	3.0	1 to 10 hours	0.3 to 60 ppm
Methyl ethyl ketone	1.25	1 to 10 hours	0.125 to 25 ppm

**Calibration gas generation** Diffusion tube method

<b>TLV-TWA</b>	<b>TLV-STEL</b>	<b>Explosive range</b>
-	C 0.3 ppm	7.0 to 73%