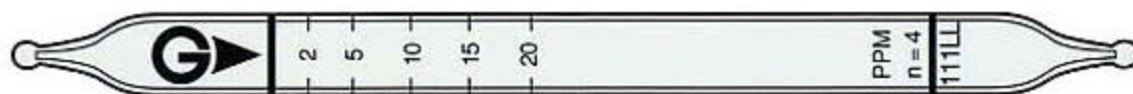


**Methanol**CH<sub>3</sub>OH**NO.111LL****Performance**

<b>Measuring Range</b>	2 to 20ppm	20 to 56ppm
<b>Number of Pump Strokes</b>	4	2
<b>Correction Factor</b>	1	2.8
<b>Sampling Time</b>	2 minutes per pump stroke	
<b>Detecting Limit</b>	0.2 ppm (n=4)	
<b>Color Change</b>	Pale yellow → Pale bluish green	
<b>Reaction Principle</b>	Methyl alcohol is reduced by chromic acid to produce pale bluish green color. $\text{CH}_3\text{OH} + \text{Cr}^{6\text{Twin Tubes}} + \text{H}_2\text{SO}_4 \longrightarrow \text{Cr}^{3+}$	
<b>Coefficient of Variation</b>	15% (for 2 to 5 ppm), 10% (for 5 to 20 ppm)	
<b>Shelf Life</b>	2 Years	
<b>Corrections for temperature &amp; humidity</b>	Temperature correction is necessary	
<b>Store the tubes at cool and dark place.</b>		

**Possible coexisting substances and their interferences**

Substance	Concentration	Interference	Change color by itself
Alcohols	-	Plus error	Produce similar stain by themselves
Aromatic hydrocarbons	-	Plus error	Produce similar stain by themselves

**Calibration gas generation** Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
200ppm	250ppm	6 to 36%

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