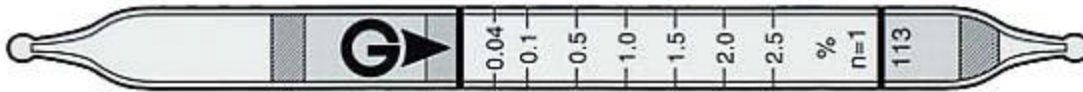


**Isopropyl alcohol**

CH<sub>3</sub>CH(OH)CH<sub>3</sub>  
(i-C<sub>3</sub>H<sub>8</sub>O Humidity Correction 7OH)

**NO.113****Performance**

<b>Measuring Range</b>	0.02 to 0.04%	0.04 to 2.5%	2.5 to 5.0%
<b>Number of Pump Strokes</b>	2	1	1/2
<b>Correction Factor</b>	1/2	1	2
<b>Sampling Time</b>	3 minutes per pump stroke		
<b>Detecting Limit</b>	0.004% (n=2)		
<b>Color Change</b>	Pink → Pale Blue		
<b>Reaction Principle</b>	Isopropyl alcohol reduces potassium dichromate to form chromic sulfate, which is pale blue in color $(\text{CH}_3)_2\text{CHOH} + \text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_4 \longrightarrow \text{Cr}_2(\text{SO}_4)_3$		
<b>Coefficient of Variation</b>	15% (for 0.04 to 0.5 %), 10% (for 0.5 to 2.5 %)		
<b>Shelf Life</b>	3 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 (NOTE)**

Substance	Concentration	Interference	Change color by itself
Other alcohols	-	Plus error	Produce similar stain by themselves
Carbon dioxide	-	No effect	No discoloration
Carbon monoxide	-	No effect	No discoloration

**Other substance measurable with this detector tube**

Substance	Correction Factor	No. of pump stroke	Measuring Range
Propyl alcohol	1	1	0.04 to 2.5 ppm

**Calibration gas generation** Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range

400ppm

500ppm

2 to 12.7%



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