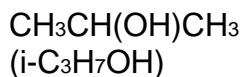
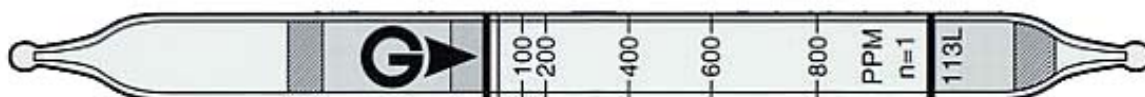


# Isopropyl alcohol



No.113L



## Performance

<b>Measuring Range</b>	25 to 50 ppm	50 to 800 ppm
<b>Number of Pump Strokes</b>	2	1
<b>Correction Factor</b>	1/2	1
<b>Sampling Time</b>	3 minutes per pump stroke	
<b>Detecting Limit</b>	5 ppm (n=2)	
<b>Colour Change</b>	Pink → Pale blue	
<b>Reaction Principle</b>	Isopropyl alcohol reduces potassium dichromate to form chromic sulphate, which is blue in colour $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$	
<b>Coefficient of Variation</b>	15% (for 50 to 200 ppm), 10% (for 200 to 800 ppm)	
<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

Substance	Concentration	Interference	Change colour by itself
Alcohols	-	Plus error	Produces pale blue stain.

## Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Divinyl methoxysilane	0.05	2	2.5 to 40 ppm
Ethylene glycol MEE	1.25	2	62.5 to 1000 ppm
Ethylene glycol MEEAc	0.12	3	6 to 96 ppm
1-Methoxy-2-propanol	1.0	4	50 to 800 ppm
Propyl alcohol	1.3	1	65 to 1040 ppm
Vinyl trimethoxysilane	0.05	2	2.5 to 40 ppm
Ethylene glycol MBE	by scale	2	30 to 1000 ppm
Ethylene glycol MME	by scale	2	15 to 900 ppm
Ethylene glycol MMEAc	by scale	2	20 to 1300 ppm

**Calibration gas generation** Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
200ppm	400ppm	2 to 12.7%