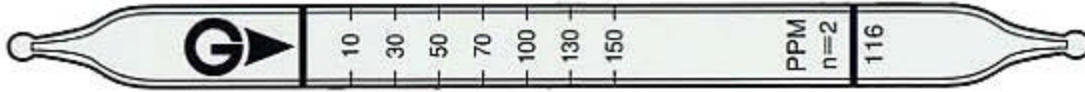


Isobutyl alcohol

(CH₃)₂CHCH₂OH
(i-C₄H₁₀O Humidity Correction)

NO.116**Performance**

Measuring Range	10 to 150 ppm
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	3 minutes per pump stroke
Detecting Limit	1 ppm (n=2)
Color Change	Yellow → Pale blue
Reaction Principle	Isobutyl alcohol reduces potassium dichromate to form chromic sulfate, which is blue in color $(\text{CH}_3)_2\text{CHCH}_2\text{OH} + \text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_3\text{PO}_4 \longrightarrow \text{Cr}_2(\text{SO}_4)_3$
Coefficient of Variation	15% (for 5 to 50 ppm), 10% (for 50 to 150 ppm)
Shelf Life	3 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences (NOTE)

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

TLV-TWA	TLV-STEL	Explosive range
50ppm	-	1.7 to 10.6%