

**Performance**

Measuring Range	0.01 to 0.05%	0.05 to 2.5%	2.5 to 7.5%
Number of Pump Strokes	2	1	1/2
Correction Factor	0.2	1	3
Sampling Time	1.5 minutes per pump stroke		
Detecting Limit	0.004% (n=2)		
Colour Change	Pink → Pale blue		
Reaction Principle	Ethyl alcohol reduces chromic acid to discolour pale blue stain. $C_2H_5OH + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
Coefficient of Variation	15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %)		
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

Substance	Concentration	Interference	Change colour by itself
Carbon monoxide	-	No effect	No discoloration
Carbon dioxide	-	No effect	No discoloration
Alcohols	-	Plus error	Produces pale blue stain

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
1000ppm	1000ppm	3.3 to 19%