

**Performance**

Measuring Range	10 to 400 ppm	400 to 1200 ppm
Number of Pump Strokes	2	1
Correction Factor	1	3
Sampling Time	4 minutes per pump stroke	
Detecting Limit	2 ppm (n=2)	
Colour Change	Yellow → Pale blue	
Reaction Principle	Ethyl ether reduces chromic acid to produce pale blue discoloration. $(C_2H_5)_2O + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$	
Coefficient of Variation	10% (for 10 to 100 ppm), 5% (for 100 to 400 ppm)	
Shelf Life	2 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
Alcohols	-	Plus error	Produce pale blue discoloration
Esters	-	Plus error	Produce pale blue discoloration
Ketones	-	Plus error	Produce pale blue discoloration

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
400ppm	500ppm	1.9 to 36%