

**Performance**

Measuring Range	0.05 to 0.6%
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	1.5 minutes per pump stroke
Detecting Limit	0.001% (n=2)
Colour Change	Orange → Dark green
Reaction Principle	$(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$
Coefficient of Variation	10% (for 0.05 to 0.2 %), 5% (for 0.2 to 0.6 %)
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
Sulphur dioxide	≥ 500 ppm	Plus error	Discolours green
Hydrogen sulphide	≥ 500 ppm	Plus error	Discolours dark green
Alcohols, Esters, Ketones	-	Plus error	Discolours greenish brown
Propane	≥ 2000 ppm	Plus error	Produce dark green for whole layer
Aromatic Hydrocarbons	≥ 500 ppm	Plus error	Discolours dark green

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Stroke	Measuring Range
Styrene	1.5	1	0.075 to 0.9%

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
50ppm	75ppm	1.2 to 8%