

**Performance**

Measuring Range	0.1 to 1.5%
Number of Pump Stroke	1
Correction Factor	1
Sampling Time	2 minutes per pump stroke
Detecting Limit	0.01% (n=1)
Colour Change	Orange \longrightarrow Dark green
Reaction Principle	$\text{CH}_3\text{CO}_2\text{C}_2\text{H}_5 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \longrightarrow \text{Cr}^{3+}$
Coefficient of Variation	10% (for 0.1 to 0.3 %), 5% (for 0.3 to 1.5 %)
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
Sulphur dioxide	≥ 500 ppm	Plus error	Discolours green
Hydrogen sulphide	≥ 500 ppm	Plus error	Discolours dark green
Alcohols, Esters, Ketones	-	Plus error	Discolours dark green
Propane	≥ 2000 ppm	Plus error	Dark green (whole layer)
Aromatic Hydrocarbons	≥ 500 ppm	Plus error	Discolours dark green

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Vinyl acetate	Factor: 0.6	1	0.06 to 0.9%

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
400ppm	-	2 to 11.5%