

**Performance**

Measuring Range	0.015 to 0.03%	0.03 to 0.6%	0.6 to 1.2%
Number of Pump Strokes	2	1	1/2
Correction Factor	1/2	1	2
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.003% (n = 2)		
Colour Change	Orange → Dark green		
Reaction Principle	Gasoline reduces potassium dichromate to form chromic sulphate, which is dark green in colour $\text{CH}_3(\text{CH}_2)_4\text{CH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \longrightarrow \text{Cr}^{3+}$		
Coefficient of Variation	10% (for 0.03 to 0.2 %), 5% (for 0.2 to 0.6 %)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Unnecessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Acetylene	≥3%	-	Produces dark green to whole layer
Propane	≥0.2%	-	Produces dark green to whole layer
Aromatic hydrocarbons	≥500 ppm	Plus error	Produces dark green stain
Alcohols, Esters, Ethers	-	Plus error	Produces dark green stain
Halogenated hydrocarbons	≥5000 ppm	Plus error	Produces dark green stain
Hydrogen sulphide	≥500 ppm	Plus error	Produces dark green stain
Sulphur dioxide	≥500 ppm	Plus error	Produce green stain

Other substance measurable with this detector tube

Substance	Correction	No. of Pump Strokes	Measuring Range
Cyclohexane	Factor: 1.0	1/2, 1 or 2	0.015 to 1.2%
Methylcyclohexane	Factor: 1.4	1	0.04 to 0.84%

Calibration gas generation Static gas dilution method

TLV to TWA	TLV to STEL	Explosive range
50ppm	-	1.1 to 7.5%