

**Performance**

Measuring Range	10 to 200 ppm	200 to 500 ppm
Number of Pump Strokes	2	1
Correction Factor	1	2.5
Sampling Time	4 minutes per pump stroke	
Detecting Limit	1 ppm (n=2)	
Colour Change	Yellow → Pale blue	
Reaction Principle	Methyl methacrylate is reduced by chromic acid to produce pale blue stain. $\text{CH}_2:\text{C}(\text{CH}_3)\text{CO}_2\text{CH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \longrightarrow \text{Cr}^{3+}$	
Coefficient of Variation	10% (for 10 to 50 ppm), 5% (for 50 to 200 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, Esters, Ketones	-	Plus error	Produce pale blue discoloration

Other substance measurable with this detector tube

Tube 149 Reading (n=2)	10	20	30	50	100	150	200
Allyl isothiocyanate conc. (ppm)	5	10	15	30	70	130	200

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
50ppm	100ppm	1.7 to 8.2%