

**Performance**

Measuring Range	2 to 25 ppm	25 to 100 ppm
Number of Pump Strokes	4	1
Correction Factor	1	4
Sampling Time	30 seconds per pump stroke	
Detecting Limit	0.5 ppm (n=4)	
Colour Change	White → Yellow	
Reaction Principle	Styrene reacts with sulphuric acid fuming to form a condensation polymer which is yellow stain. $\text{C}_6\text{H}_5\text{CH:CH}_2 + \text{H}_2\text{S}_2\text{O}_7 \longrightarrow \text{Condensation polymer}$	
Coefficient of Variation	10% (for 2 to 5 ppm), 5% (for 5 to 25 ppm)	
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
Alcohols, Esters	≥10 times	Plus error (Bleaching)	No discoloration
Aldehydes, Ketones	≥10 times	Plus error (Bleaching)	No discoloration
Butadiene	≥5 ppm	Plus error (Bleaching)	Produce blackish brown

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Divinyl benzene	0.6	3	1 to 15 ppm

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
20ppm	40ppm	1.1 to 6.1%