

**Performance**

Measuring Range	0.2 to 20 ppm	20 to 66 ppm
Number of Pump Strokes	3	1
Correction Factor	1	3.3
Sampling Time	1.5 minutes per pump stroke	
Detecting Limit	0.1 ppm (n=3)	
Colour Change	White → Brown	
Reaction Principle	$2C_6H_6 + HCHO \rightarrow C_6H_5CH_2C_6H_5 + H_2O$ $C_6H_5CH_2C_6H_5 + H_2S_2O_7 \rightarrow \text{Condensation polymer}$	
Coefficient of Variation	10% (for 0.2 to 5 ppm), 5% (for 5 to 20 ppm)	
Shelf Life	2 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
Hexane	≤500 ppm	No effect	No discoloration
Toluene	≤300 ppm	No effect	No discoloration
Xylene	≤350 ppm	No effect	No discoloration

Aromatic hydrocarbons other than benzene are trapped in the brown layer in the pre-treatment tube. If the pre-treatment reagent is entirely consumed (whole brown layer turns to dark brown), a higher reading will be given.

Calibration gas generation Diffusion tube method

TLV to TWA	TLV to STEL	Explosive range
0.5ppm	2.5ppm	1.3 to 7.1%