

**Performance**

Measuring Range	2.5 to 300 ppm
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	1.5 minutes per pump stroke
Detecting Limit	1 ppm (n=2)
Colour Change	White → Light brown
Reaction Principle	o-Dichlorobenzene reacts with iodine pentoxide to liberate iodine to discolour the reagent to light brown. $\text{C}_6\text{H}_4\text{Cl}_2 + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \longrightarrow \text{I}_2$
Coefficient of Variation	10% (for 2.5 to 10 ppm), 5% (for 30 to 300 ppm)
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
Aromatic hydrocarbons	-	Plus error	Produce light brown
Acetylene	≥0.2%	Plus error	Produce light brown to whole layer
Carbon monoxide	≥0.1%	Plus error	
Ethylene, Esters	≥0.2%	Plus error	
Hexane	≥0.2%	Plus error	
Alcohols, Ketones	≥1%	Plus error	No discoloration

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
m-Dichlorobenzene	1.0	2	2.5 to 300 ppm
p-Dichlorobenzene	1.0	2	2.5 to 300 ppm

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
25ppm	50ppm	2.2 to 12%