

BenzeneC₆H₆ Humidity
Corrections**NO. 121SL****Performance**

Measuring Range	1 to 20 ppm	20 to 100 ppm
Number of Pump Strokes	5	1
Correction Factor	1	5
Sampling Time	2 minutes per pump stroke	
Detecting Limit	0.25 ppm (n=5)	
Color Change	White → Brownish gray	
Reaction Principle	Benzene reduces iodine pentoxide to liberate iodine, which produces a brownish gray in color $\text{C}_6\text{H}_6 \text{ Humidity Correction}_6 + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \longrightarrow \text{I}_2$	
Coefficient of Variation	20% (for 1 to 5 ppm), 15% (for 5 to 20 ppm)	
Shelf Life	3 Years	
Corrections for temperature & humidity	Unnecessary	
Store the tubes at cool and dark place.		

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Hexane	50 ppm	No effect	No discoloration
Toluene	100 ppm	No effect	No discoloration
Xylene	150 ppm	No effect	No discoloration

Aromatic hydrocarbons other than benzene are trapped in the brown layer in the pretreatment tube. If the pretreatment 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%

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Policy Statement and Legal Notices

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