



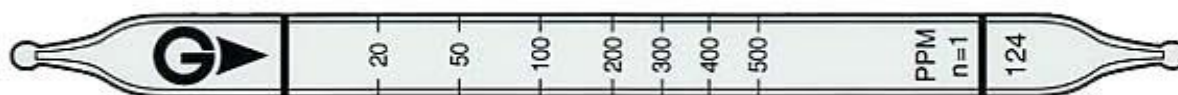
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## Gastec Tube Datasheet

**Styrene**

$C_6H_5CH:CH_2$

**NO.GAS124**



### Performance

<b>Measuring Range</b>	10 to 20 ppm	20 to 500 ppm	500 to 1500 ppm
<b>Number of Pump Strokes</b>	2	1	1/2
<b>Correction Factor</b>	1/2	1	3
<b>Sampling Time</b>	30 seconds per pump stroke		
<b>Detecting Limit</b>	1 ppm (n=2)		
<b>Colour Change</b>	White → Yellow		
<b>Reaction Principle</b>	Styrene reacts with Sulphuric Acid fuming to form a condensation polymer which is yellow stain. $C_6H_5CH:CH_2 + H_2S_2O_7 \rightarrow$ Condensation Polymer		
<b>Coefficient of Variation</b>	15% (for 20 to 100 ppm), 10% (for 100 to 500 ppm)		
<b>Shelf Life</b>	Up to 3 Years		
<b>Corrections for temperature &amp; humidity</b>	Unnecessary		

Store the tubes at cool and dark place.

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Alcohols	0.5%	Plus error (Bleaching)	No discoloration
Esters	0.5%	Plus error (Bleaching)	No discoloration
Ketones	0.5%	Plus error (Bleaching)	No discoloration

**Calibration gas generation** Diffusion tube method

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