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## Gastec Tube Datasheet

**Chloroform**

CHCl<sub>3</sub>

**No.GAS137**



### Performance

<b>Measuring Range</b>	4 to 10 ppm	10 to 100 ppm	100 to 400 ppm
<b>Number of Pump Stroke</b>	7	5	3
<b>Correction Factor</b>	0.4	1	4
<b>Sampling Time</b>	2 minutes per pump stroke		
<b>Detecting Limit</b>	1 ppm (n=7)		
<b>Colour Change</b>	White → Orange		
<b>Reaction Principle</b>	Chloroform is oxidized by nascent Oxygen to liberate Chlorine. It reacts with o-Tolidine to generate orange stain. $\text{CHCl}_3 + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \rightarrow \text{Orange product}$		
<b>Coefficient of Variation</b>	15% (for 10 to 20 ppm), 10% (for 20 to 100 ppm)		
<b>Shelf Life</b>	Up to 3 Years		
<b>Corrections for temperature &amp; humidity</b>	Humidity correction is necessary		
<b>Store the tubes at cool and dark place.</b>			

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Chlorine, Bromine, Iodine	≥1/20 time	Plus error	Discolours to orange
Unsaturated halogenated HCs	≥1/20 time	Plus error	Discolours to orange
Saturated halogenated HCs	≥1/10 time	Plus error	Discolours to orange

**Calibration gas generation** Diffusion tube method

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