



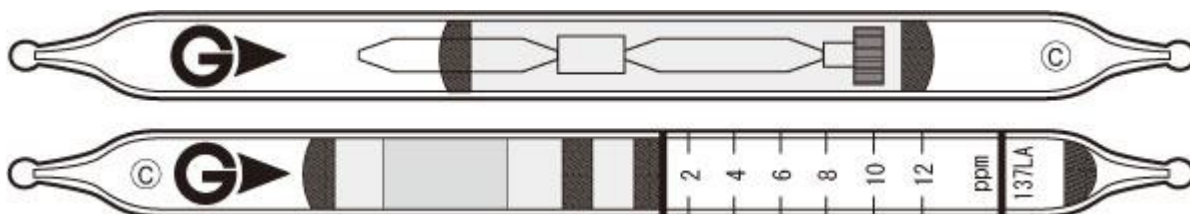
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Gastec Tube Datasheet

Chloroform

CHCl₃

NO.GAS137LA



Performance

Measuring Range	0.5 to 2 ppm	2 to 12 ppm	12 to 30 ppm
Number of Pump Stroke	4	2	1
Correction Factor	0.25	1	2.5
Sampling Time	2 minutes per pump stroke		
Detecting Limit	0.2 ppm (n=4)		
Colour Change	White → Pale purple		
Reaction Principle	Chloroform is oxidized by nascent Oxygen to liberate acid gas. It reacts with 3,3-Dimethylnaphtidine to produce pale purple stain. $\text{CHCl}_3 + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \longrightarrow \text{Cl}_2$ $\text{Cl}_2 + (\text{CH}_3\text{C}_{10}\text{H}_5\text{NH}_2)_2 \longrightarrow \text{Pale purple products}$		
Coefficient of Variation	10% (for 2 to 4 ppm), 5% (for 4 to 12 ppm)		
Shelf Life	Up to 1 Year (in the refrigerator)		
Corrections for temperature & humidity	Temperature correction is necessary		
Store the tubes in the refrigerator to keep at 10°C (50°F) or below.			

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Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Chlorine, Bromine, Iodine	-	No error	No discolouration
Unsaturated halogenated Hydrocarbons	-	Plus error	Produce pale purple stain
Saturated halogenated Hydrocarbons	-	Plus error	Produce pale purple stain

Calibration gas generation

Diffusion tube method

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