



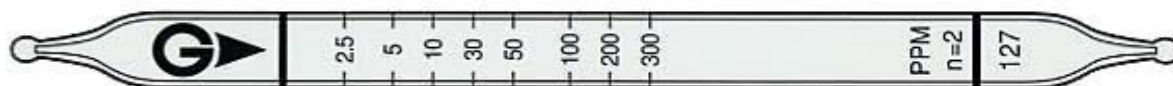
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Gastec Tube Datasheet

O-Dichlorobenzene

C₆H₄Cl₂

No. GAS127



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. $C_6H_4Cl_2 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$
Coefficient of Variation	10% (for 2.5 to 10 ppm), 5% (for 30 to 300 ppm)
Shelf Life	Up to 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

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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

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