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Gastec Tube Datasheet

Methylene Chloride CH₂Cl₂

No. GAS138



Performance

Measuring Range	20 to 50 ppm	50 to 500 ppm
Number of Pump Stroke	2	1
Correction Factor	0.4	1
Sampling Time	3 minutes per pump stroke	
Detecting Limit	10 ppm (n=2)	
Colour Change	White → Pale Pink	
Reaction Principle	$\text{CH}_2\text{Cl}_2 + \text{CrO}_3 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + 3,3,5,5\text{-Tetramethylbenzidine} \rightarrow \text{Holoquinone}$	
Coefficient of Variation	15% (for 50 to 100 ppm), 10% (for 100 to 500 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
Chlorine, Bromine, Iodine	-	Plus error	Discolours pale pink
Unsaturated halogenated Hydrocarbons	-	Plus error	Discolours pale pink
Saturated halogenated Hydrocarbons	-	Plus error	Discolours pale pink

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Ethyl Chloride	0.3	1	15 to 150 ppm

Calibration gas generation Diffusion tube method

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