



The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Methyl Iodide

CH₃I

No. GAS230



Performance

Measuring Range	0.5 to 1 ppm	1 to 20 ppm	20 to 46 ppm	46 to 108 ppm
Number of Pump Strokes	4	2	1	1/2
Correction Factor	0.5	1	2.3	5.4
Sampling Time	1.5 minutes per pump stroke			
Detecting Limit	0.2 ppm(n=4)			
Colour Change	White → Grey			
Reaction Principle	$\text{CH}_3\text{I} + \text{I}_2\text{O}_5 + \text{V}_2\text{O}_5 + \text{H}_2\text{SO}_4 \longrightarrow \text{I}_2$ $\text{I}_2 + 3,3,5,5\text{-Tetramethylbenzidine} \longrightarrow \text{Reaction products}$			
Coefficient of Variation	10% (for 0.5 to 2 ppm), 5% (for 2 to 6 ppm)			
Shelf Life	Up to 1 Year (if in 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	$\geq 1/1$	Plus error (Two layers)	Brown (pale blue after a few mins)
Nitrogen Dioxide	$\geq 1/1$	Minus error (Two layers)	Discolours pink stain
Methyl Bromide	≤ 30 ppm	No error	No discoloration
Dichloromethane	≤ 50 ppm	No error	No discoloration
Carbon dioxide	≥ 20 ppm	No error	No discoloration

Calibration gas generation Diffusion tube method

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