



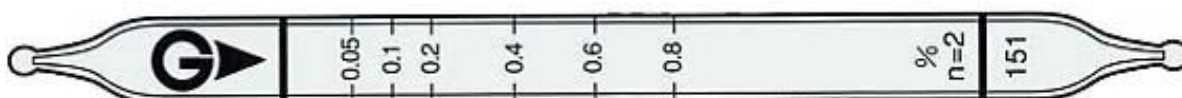
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Gastec Tube Datasheet

Acetone

CH₃COCH₃

No. GAS151



Performance

Measuring Range	0.05 to 0.8%	0.8 to 2.0%
Number of Pump Strokes	2	1
Correction Factor	1	2.5
Sampling Time	2 minutes per pump stroke	
Detecting Limit	0.003% (n=2)	
Colour Change	Orange → Dark green	
Reaction Principle	$\text{CH}_3\text{COCH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 + \text{H}_2\text{O} \rightarrow \text{Cr}^{3+}$	
Coefficient of Variation	10% (for 0.05 to 0.2 %), 5% (for 0.2 to 0.8 %)	
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
Sulphur dioxide	≥500 ppm	Plus error	Produce green stain
Hydrogen sulphide	≥500 ppm	Plus error	Produces dark green stain
Alcohols, Esters, Ketones	-	Plus error	Produce dark green stain
Propane	≥0.2%	Yes	Produce dark green for whole layer
Aromatic Hydrocarbons	≥500 ppm	Plus error	Produce dark green

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Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Cyclohexene	1.0	1	0.05 to 0.8%

Calibration gas generation Static gas dilution method

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