

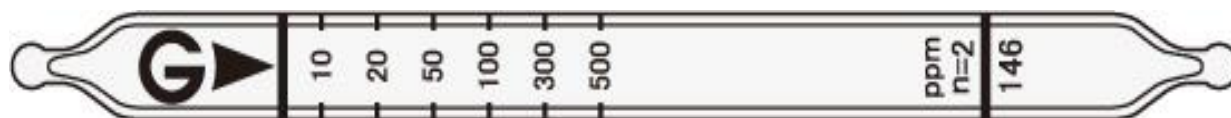


The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Isopropyl Acetate $\text{CH}_3\text{CO}_2\text{CH}(\text{CH}_3)_2$ (i- $\text{CH}_3\text{CO}_2\text{C}_3\text{H}_7$)

no.GAS146



Performance

Measuring Range	10 to 500 ppm
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	4 minutes per pump stroke
Detecting Limit	5 ppm (n=2)
Colour Change	Yellow → Blackish brown → Pale blue after few minutes
Reaction Principle	Isopropyl acetate reduces Chromic Acid to produce blackish brown. $\text{CH}_3\text{CO}_2\text{CH}(\text{CH}_3)_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$
Coefficient of Variation	15% (for 20 to 100 ppm), 10% (for 100 to 500 ppm)
Shelf Life	Up to 2 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
Alcohols	-	Plus error	Produce blackish brown then turns to pale blue
Ketones	-	Plus error	
Esters	-	Plus error	

Calibration gas generation Diffusion tube method

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