



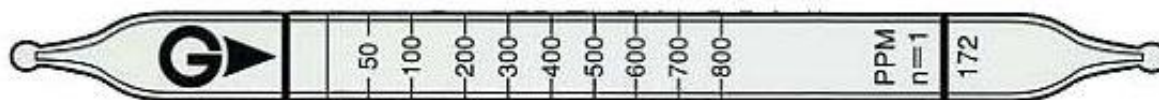
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Gastec Tube Datasheet

Ethylene

CH₂:CH₂

No. GAS172



Performance

Measuring Range	(25) to 800 ppm	800 to 1680 ppm
Number of Pump Strokes	1	1/2
Correction Factor	1	2.1
Sampling Time	3 minutes per pump stroke	
Detecting Limit	5 ppm (n=1)	
Colour Change	Pale yellow → Blue	
Reaction Principle	Ethylene reacts with Palladium Sulphate to form an additive compounds, which reacts with Ammonium Molybdenate to yield Molybdenum blue. $\text{CH}_2:\text{CH}_2 + (\text{NH}_4)_2\text{MoO}_4 + \text{PdSO}_4 \longrightarrow \text{Molybdenum blue}$	
Coefficient of Variation	10% (for 25 to 200 ppm), 5% (for 200 to 800 ppm)	
Shelf Life	Up to 3 Years	
Corrections for temperature & humidity	Unnecessary	
Store the tubes at cool and dark place.		

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ammonia, Hydrogen Cyanide	-	Plus error	Discolour to white
Carbon Monoxide, Hydrogen	-	Plus error	Discolour to blue for whole layer
Hydrogen Chloride	-	Plus error	Discolours to pink
Hydrogen Sulphide	-	Plus error	Discolours to black
Butadiene	-	Plus error	Discolours to white
Butane, Pentane	-	Plus error	Discolour to blue for whole layer
Butylene, Propylene	≥1/4	Plus error	Discolour to blue

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Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Acetylene	1.3	1	32.5 to 1040 ppm

Calibration gas generation High pressure gas cylinder method

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