

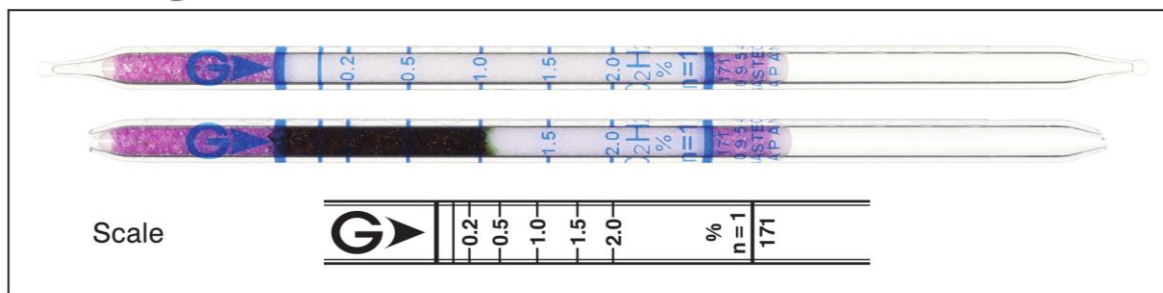


Acetylene $\text{HC} \equiv \text{CH}$

Part No.:171

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No.171



Performance The minimum scale value (0.1%) is not printed on the tube, but only the scale line is printed.

Measuring range	0.05 to 0.1 %	(0.1) to 2.0 %	2.0 to 4.0 %
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2	1	2
Sampling time	1.5 min	45 sec	30 sec

Detecting limit : 0.02 % (2 pump strokes)

Colour change : White → Brown

Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 0 to 90 % correction not used

Relative standard deviation : 15 % (for 0.1 to 0.5 %), 10 % (for 0.5 to 2 %)

Tube quantity and number of tests per box : 10 tubes for 10 tests

Shelf life : 36 months

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Carbon monoxide	$\geq 0.1 \%$	+	Brown ($\geq 0.1 \%$)
Ethylene	$\geq 0.5 \%$	+	Brown ($\geq 0.5 \%$)
Hydrocarbons ($\geq \text{C}_3$)		+	Brown

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Benzene	Factor : 0.3	4	0.03 to 0.6 %
Ethylene	Factor : 1.0	1	0.1 to 2.0 %
1,1,1-Trichloroethane	Factor : 0.6	1	0.06 to 1.2 %

Calibration gas generation

High pressure gas cylinder method