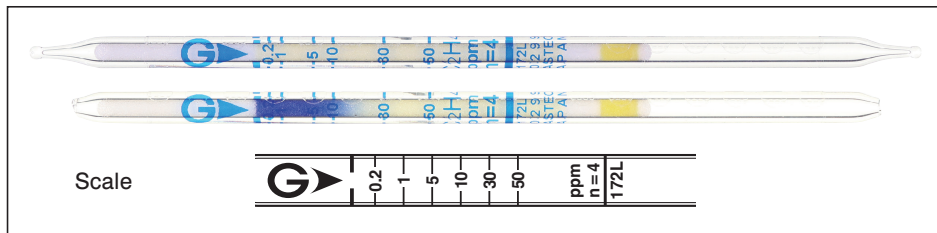


Ethylene CH₂:CH₂

No.172L



Performance

Measuring range	0.2 to 50 ppm	50 to 100 ppm
Number of pump strokes	4 (400 mL)	2 (200 mL)
Correction factor	1	2
Sampling time	8 min	4 min
Detecting limit :	0.05 ppm (4 pump strokes)	
Colour change :	Pale yellow → Blue	
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction used Relative humidity 0 to 90 % correction not used	
Relative standard deviation :	10 % (for 0.2 to 10 ppm) , 5 % (for 10 to 50 ppm)	
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
Butane, Carbon monoxide	≧ 1/4	+	} Blue (whole layer)
Hydrogen, Pentane		+	
Butylene, Propylene		+	Blue
Ammonia, Butadiene		+	} White
Hydrogen cyanide		+	
Hydrogen chloride		+	Pink
Hydrogen sulphide	+	Black	

Water vapour is trapped in the pretreatment (white) layer.

Calibration gas generation

High pressure gas cylinder method