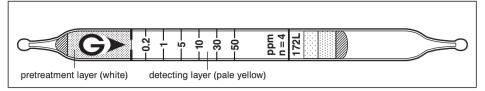
Ethylene CH2:CH2



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

Corrections for temperature & humidity: Temperature correction is necessary.

Relative standard deviation: 10 % (for 0.2 to 10 ppm), 5 % (for 10 to 50 ppm)

Shelf life: 3 years

Reaction principle

CH₂:CH₂ + (NH₄)₂MoO₄ + PdSO₄ → Molybdenum blue

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Butane, Carbon monoxide		+	Blue (whole layer)
Hydrogen, Pentane		+	
Butylene, Propylene	≥ 1/4	+	Blue
Ammonia, Butadiene		+	White
Hydrogen cyanide		+) vviiite
Hydrogen chloride		+	Pink
Hydrogen sulphide		+	Black

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

Calibration gas generation

High pressure gas cylinder method