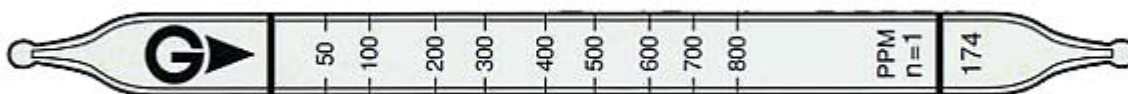


1,3-Butadiene $\text{CH}_2:\text{CHCH}:\text{CH}_2$ **NO.174****Performance**

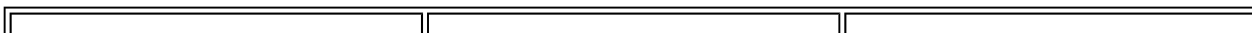
Measuring Range	50 to 800 ppm
Number of Pump Strokes	1
Correction Factor	1
Sampling Time	3 minutes per pump stroke
Detecting Limit	10 ppm (n=1)
Color Change	Pale yellow → White
Reaction Principle	1,3-Butadiene reacts with palladium sulfate and ammonium molybdate to produce white compound.
Coefficient of Variation	10% (for 50 to 200 ppm), 5% (for 200 to 800 ppm)
Shelf Life	3 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Acetylene, Carbon monoxide	10 ppm	Plus error	Discolor to blue
Ammonia, Hydrogen cyanide	-	Plus error	Discolor to white
Hydrogen	20%	Plus error	Discolors to blue for whole layer
Hydrogen sulfide	10 ppm	Plus error	Discolors to black
Ethylene	1 ppm	Plus error	Discolors to blue
Styrene	-	Plus error	Discolor to pale blue

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
1,3-Pentadiene	5.0	1	250 to 4000 ppm

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
2ppm	-	2.0 to 12%



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Policy Statement and Legal Notices

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