Vinyl Chloride 0.5/b

Order No. 81 01 721

Application Range

Standard Measuring Range:	5 to 30 ppm	/ 0.5 to 5 ppm
Number of Strokes n:	1	/ 5
Time for Measurement:	approx. 30 s	/ approx. 2.5
min		
Standard Deviation:	± 15 to 20 %	
Color Change:	white → violet	

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	max. 20 mg H_2O / L

Reaction Principle

a) CH_2=CHCl + Cr^{VI} → Cl_2

b) Cl_2 + dimethyl naphtidine → violet reaction product

Cross Sensitivity

100 ppm hydrogen chloride, 20 ppm chlorine, 10 ppm carbon tetrachloride, 10 ppm chloroform or 5 ppm perchloroethylene are not indicated.

Trichloroethylene and chlorobenzene are indicated with less sensitivity.

1.1-dichloroethylene is indicated with almost identical sensitivity.

Vapors of organic solvents consume part of the oxidation layer so that the resultant reading is somewhat lower.

Examples: a reading of 0.5 ppm vinyl chloride will occur by

5 ppm vinyl chloride + 100 ppm butadiene or

5 ppm vinyl chloride + 10 ppm ethylene

ST-159-2001