3M BRAND ORGANIC VAPOR MONITOR
PRODUCT NO. 3500

Qualification Data for **Vinyl Chloride**

SAMPLING AND ANALYSIS INFORMATION

Monitor Sampling Rate	40.7 cm^3/min.
Recovery Coefficient	0.90 in CS_2
Upper Exposure Limit [1]	187 mg. (30 ppm-hours)

COMPOUND PROPERTIES AND DATA

Molecular Weight	62.50
Published Diffusion Constant [2]	Not Available
Density	—
T.W.A. (TLV)	1.0 ppm

SPECIAL CONSIDERATIONS

Sample Storage Precautions	None
Humidity Effects	Upper Exposure Limit Substantially Reduced
The Upper Exposure Limit at 90 % R.H. is	5 ppm-hours
Ceiling Level Monitoring [3]	Not Recommended

CALCULATION PROCEDURE

A = mass of analyte in micrograms
B = sampling time in minutes
Substitute A & B into equations below:

$$\frac{mg}{m^3} = \frac{24.57 \times A}{\text{recovery coefficient} \times B} = \frac{27.30 \times A}{B}$$

$$ppm^{[4]} = \frac{9.61 \times A}{\text{recovery coefficient} \times B} = \frac{10.68 \times A}{B}$$

Footnotes:

(1) This number is the highest concentration of the compound actually measured by the 3M Lab.
(2) Diffusion constants are provided for general interest. They are not required in the calculation procedure.
(3) A minimum sampling time of 15 minutes is required.
(4) ppm based on 25 °C. 760 mm Hg.