

Carbon Tetrachloride 0.1/a

Order No. 81 03 501

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Application Range

Standard Measuring Range:	0.1 to 5 ppm
Number of Strokes n:	5
Time for Measurement:	approx. 2.5 min
Standard Deviation:	± 20 to 15 %
Color Change:	yellow → blue-green

Ambient Operating Conditions

Temperature:	2 to 40 °C
Absolute Humidity:	1 to 40 mg / L

Reaction Principle

- a) $\text{CCl}_4 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{COCl}_2$
 b) $\text{COCl}_2 + \text{diethylaniline} + \text{dimethylaminobenzaldehyde} \rightarrow$
 blue-green reaction product

Cross Sensitivity

Phosgene is displayed with roughly the same sensitivity as carbon tetrachloride.

50 ppm Tetrachloroethylene will have a display of approx. 1 to 2 ppm,
 50 ppm trichloroethylene and 1.1 dichloroethylene will have a weak
 display of < 0.1 pmm.

No indication with:

- 10 ppm Vinyl Chloride
- 200 pmm 1,2-Dichloroethylene



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