

Carbon Tetrachloride 1/a

Order No. 81 01 021

C

Application Range

Standard Measuring Range:	1 to 15 ppm	/ 10 to 50 ppm
Number of Strokes n:	10	/ 5
Time for Measurement:	approx. 6 min	/ 3 min
Standard Deviation:	± 15 to 20 %	
Color Change:	white → yellow	

Ambient Operating Conditions

Temperature:	15 to 30 °C
Absolute Humidity:	3 to 15 mg H ₂ O / L

Reaction Principle

- a) $\text{CCl}_4 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{COCl}_2$
 b) $\text{COCl}_2 + \text{Aromatic nitrogen compounds} \rightarrow \text{yellow reaction product}$

Cross Sensitivity

Chloropicrin and phosgene are indicated with the same sensitivity. It is impossible to measure carbon tetrachloride in the presence of chloropicrin and phosgene.

No interference from:

- 1 ppm chlorine
- 5 ppm hydrochloric acid
- 20 ppm methyl bromide
- 1,000 ppm acetone



D-13317-2010