

Carbon Tetrachloride 5/c

Catalog No CH27401

Standard Measuring Range: 5 to 50 ppm
Number of Strokes (n): 5
Time for Measurement: max 3 minutes
Standard Deviation: ± 20 to 30%
Color Change: white to blue green

Ambient Operation Conditions

Temperature: 0 to 40°C
Absolute Humidity: 3 to 15 mg H₂O/L

Reaction Principle

- a) $\text{CCl}_4 + \text{H}_2\text{S}_2\text{O}_7 \longrightarrow \text{COCl}_2$
b) $\text{COCl}_2 + \text{aromatic amine} \longrightarrow \text{blue green reaction product}$

Cross Sensitivity

Phosgene is indicated with approximately the same sensitivity. It is impossible to measure carbon tetrachloride in the presence of phosgene.

Other chlorinated hydrocarbons are also indicated, but only when they occur in higher concentrations.

Additional Information

Before carrying out the measurement the reagent ampule must be broken. The granular contents must be shaken out of the broken ampule by gently tapping the side of the tube. The tube must be held vertically with the inlet of the tube up during the measurement.



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