

Trichloroethane 50/d

Order No. CH 21 101

Application Range

Standard Measuring Range:	50 to 600 ppm
Number of Strokes n:	2 + 3 desorption strokes in clean air
Time for Measurement:	approx. 1.5 min
Standard Deviation:	± 10 to 15 %
Color Change:	grey → brown red

Ambient Operating Conditions

Temperature:	15 to 40 °C
Absolute Humidity:	5 to 15 mg H ₂ O / L

Reaction Principle

- 1,1,1-trichloroethane + $\text{IO}_3^-/\text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{Cl}_2$
- Cl_2 + o-tolidine → brown red reaction product

Cross Sensitivity

Other chlorinated hydrocarbons are indicated, but with different sensitivities.

In the presence of aromatic hydrocarbons the indication is too low (e.g. 200 ppm 1,1,1-trichloroethane and 200 ppm toluene, the reading amounts to 1/4 only, i.e. 50 ppm).

