

Order No.

CH 21101

## Trichloroethane 50/d

**Standard Measuring Range** : 50 to 600 ppm  
**Number of Strokes (n)** : 2 + 3 desorption strokes  
in clean air  
**Time for Measurement** : app. 2 min  
**Standard Deviation** :  $\pm 10$  to 15 %  
**Colour Change** : grey  $\rightarrow$  brown red

### Ambient Operating Conditions

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

### Reaction Principle

- a) 1,1,1-Trichloroethane +  $\text{IO}_3^-/\text{H}_2\text{S}_2\text{O}_7$   $\rightarrow$   $\text{Cl}_2$   
b)  $\text{Cl}_2$  + o-Tolidine  $\rightarrow$  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 + 200 ppm toluene gives an indication of 50 ppm).

