# Nickel Tetracarbonyl 0.1/a

Order No. CH 19 501

#### Application Range

Standard Measuring Range: 0.1 to 1 ppm

Discoloration compared to

color standard.

Number of Strokes n: 20

Time for Measurement: approx. 5 min

Standard Deviation: ± 50 %

Color Change: yellow → pink

### **Ambient Operating Conditions**

Temperature: 0 to 30 °C
Absolute Humidity: < 30 mg H<sub>2</sub>O / L

## Reaction Principle

a) Ni(CO)<sub>4</sub> + I<sub>2</sub> → NiI<sub>2</sub> + 4 CO

b) Nil₂ + Dimethylglyoxime → pink colored complex

# Cross Sensitivity

Iron pentacarbonyl is also indicated by a brownish discoloration, however, with less sensitivity. Measurement of nickel tetra carbonyl is not possible in the presence of hydrogen sulfide of sulfur dioxide, since the reading is suppressed. Such a disturbance can be recognised by decoloration of the indicating layer even before the reagent ampoule is opened.

#### Additional Information

After performing the required 20 pump strokes the reagent ampoule must be broken and the liquid carefully drawn onto the indicating layer using the pump.

