

Order No.
CH 19501

Nickel Tetracarbonyl 0.1/a

Standard Measuring Range : 0.1 to 1 ppm
Discoloration compared to colour standard.

Number of Strokes (n) : 20

Time for Measurement : app. 5 min

Standard Deviation : $\pm 50\%$

Colour Change : yellow \rightarrow pink

Ambient Operating Conditions

Temperature : 0 to 30 °C

Absolute Humidity : $< 30 \text{ mg H}_2\text{O} / \text{L}$

Reaction Principle

- a) $\text{Ni}(\text{CO})_4 + \text{I}_2 \rightarrow \text{NiI}_2 + 4 \text{CO}$
- b) $\text{NiI}_2 + \text{Dimethylglyoxime} \rightarrow \text{pink coloured complex}$

Cross Sensitivity

Iron pentacarbonyl is indicated with a brown discoloration and with a lower sensitivity than nickel tetracarbonyl.

Hydrogen sulphide and sulphur dioxide react with the iodine preparation and can suppress the nickel tetracarbonyl indication. The Instructions for Use of this tube describe how the interference can be quickly recognized.

Additional Information

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



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