

Nickel Tetracarbonyl 0.1/a

Catalog No CH19501

Standard Measuring Range:	0.1 to 1 ppm, discoloration compared to color standard
Number of Strokes (n):	20
Time for Measurement:	about 5 minutes
Standard Deviation	± 50%
Color Change:	white to brown green to grey violet

Ambient Operation Conditions

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

Reaction Principle

- $\text{Ni}(\text{CO})_4 + \text{I}_2 \longrightarrow \text{NiI}_2 + 4 \text{CO}$
- $\text{NiI}_2 + \text{Dimethylglyoxime} \longrightarrow \text{pink colored complex}$

Cross Sensitivity

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

Hydrogen sulfide and sulfur 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 ampule must be broken and the liquid carefully drawn onto the indication layer using the pump.



Dräger

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