

Order No.
67 28681

Chromic Acid 0.1/a

Standard Measuring Range : 0.1 to 0.5 mg/m³
Discoloration compared to colour standard.

Number of Strokes (n) : 40
Time for Measurement : app. 8 min
Standard Deviation : ± 50 %
Colour Change : white →violet

Ambient Operating Conditions

Temperature : 5 to 40 °C
Absolute Humidity : < 20 mg H₂O / L

Reaction Principle

- a) $\text{CrO}_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{\text{VI}}$
b) $\text{Cr}^{\text{VI}} + \text{Diphenylcarbazide} \rightarrow \text{Cr}^{\text{III}} + \text{Diphenylcarbazone}$

Cross Sensitivity

Metal chromates such as zinc or strontium chromate are indicated with 1/2 the sensitivity.

Trivalent chromium compounds have no influence on the indication.

Very high chromate concentrations lead to a rapid bleaching of the indication (yellow discoloration). If this occurs, the test should be repeated with less than 40 pump strokes.

Additional Information

After performing the required 40 pump strokes the reagent ampoule must be broken. The liquid of the ampoule must be transferred to the indication layer and carefully drawn through it using the pump.



51-52-2001