

# Chromic Acid 0.1/a

Order No. 67 28 681

## Application Range

Standard Measuring Range:	0.1 to 0.5 mg/m <sup>3</sup> Discoloration compared to color standard.
Number of Strokes n:	40
Time for Measurement:	approx. 8 min
Standard Deviation:	± 50 %
Color Change:	white → violet

## Ambient Operating Conditions

Temperature:	5 to 40 °C
Absolute Humidity:	< 20 mg H <sub>2</sub> O / 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 about half the sensitivity.

$\text{Cr}^{\text{III}}$  compounds do not affect the indication.

Very high chromate concentrations lead to a rapid bleaching of the indication. Measurements should be repeated with less strokes.

## Additional Information

After carrying out the required 40 pump strokes the reagent ampoule must be broken, the liquid transferred onto the indicating layer and carefully drawn through it using the pump.



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