

Dimethyl Sulfate 0.005/c

Order No. 67 18 701

Application Range

Standard Measuring Range:	0.005 to 0.05 ppm
	Discoloration compared to color standard.
Number of Strokes n:	200
Time for Measurement:	approx. 50 min
Standard Deviation:	± 30 %
Color Change:	white → blue

Ambient Operating Conditions

Temperature:	15 to 30 °C
Absolute Humidity:	3 to 15 mg H ₂ O / L

Reaction Principle

Dimethyl sulphate + 4-(4-Nitrobenzyl)-pyridine → colorless alkylation product

colorless alkylation product → blue reaction product

Cross Sensitivity

Phosgene and chloroformates cause a yellow discoloration of the indicating layer, and it is impossible to perform a dimethyl sulphate measurement. Alcohols, ketones, aromatics and petroleum hydrocarbons in the TLV range do not affect the indication.

Additional Information

After carrying out the required 200 pump strokes the reagent ampoule must be broken, the liquid transferred onto the indicating layer and carefully drawn through it using the pump. Wait five minutes before evaluating the indication. The tube must not be exposed to direct sunlight during the 5 minutes waiting period.

