

# Toluene Diisocyanate 0.02/A

Order No. 67 24 501

## Application Range

Standard Measuring Range:	0.02 to 0.2 ppm
	Discoloration compared to color comparison tube.
Number of Strokes n:	25
Time for Measurement:	approx. 20 min
Standard Deviation:	± 30 %
Color Change:	white → orange

## Ambient Operating Conditions

Temperature:	15 to 30 °C
Absolute Humidity:	< 20 mg H <sub>2</sub> O / L

## Reaction Principle

- Pyridylpyridinium chloride + NaOH → Glutaconaldehyde sodium oletate
- 2,4-TDI (also for 2,6-TDI) + HCl → Aromatic amine
- Aromatic amine + glutaconaldehyde → orange reaction product

## Cross Sensitivity

Other isocyanates are not indicated.

No interference by:

- 5 ppm aniline
- 10 ppm benzylamine
- 5 ppm toluene
- 20 ppm benzene

Mercaptans also discolor the indicating layer.

## Additional Information

Before carrying out the measurement the lower reagent ampoule must be broken and the liquid transferred to the indication layer, so that it changes color to yellow. Next, the upper reagent ampoule must be broken and the liquid transferred to the indication layer, so that it returns to a white color. After performing 25 pump strokes wait 15 minutes before evaluating the indication.



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Safety & Industrial Products

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