

# Toluene Diisocyanate 0.02/A

Order No.

67 24501



**Standard Measuring Range** : 0.02 to 0.2 ppm  
Discoloration compared to colour comparison tube.

**Number of Strokes (n)** : 25

**Time for Measurement** : app. 20 min

**Standard Deviation** :  $\pm 30\%$

**Colour Change** : white  $\rightarrow$  orange

## Ambient Operating Conditions

**Temperature** : 15 to 30 °C

**Absolute Humidity** :  $< 20 \text{ mg H}_2\text{O} / \text{L}$

## Reaction Principle

- a) Pyridylpyridinium chloride + NaOH  $\rightarrow$  Glutaconaldehyde sodium oletate
- b) 2,4-TDI (also for 2,6-TDI) + HCl  $\rightarrow$  Aromatic amine
- c) Aromatic amine + Glutaconaldehyde  $\rightarrow$  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 discolour 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 colour 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 colour. After performing 25 pump strokes wait 15 minutes before evaluating the indication.

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