

# Tetrahydrothiophene 1/b

Catalog No 8101341

**Standard Measuring Range:** 1 to 10 ppm  
**Number of Strokes (n):** 30  
**Time for Measurement:** about 15 minutes / about 10 minutes for a measurement in natural gas  
**Standard Deviation:** ± 15 to 20%  
**Color Change:** violet to yellow brown

## Ambient Operation Conditions

**Temperature:** 0 to 35°C  
**Absolute Humidity:** < 30 mg H<sub>2</sub>O/L

## Reaction Principle

- a) Adsorption with H<sub>2</sub>S
- b) THT + KMnO<sub>4</sub> → yellow brown reaction product

## Cross Sensitivity

Up to 10 ppm hydrogen sulfide is adsorbed in the pretube, causing a brown discoloration.

It is impossible to measure tetrahydrothiophene in the presence of mercaptans.

Up to 100 ppm of olefins (e.g. ethene, propene) will cause the color of the indicating layer to become lighter, at higher concentration the olefins cause plus errors.

Up to 200 ppm methanol does not interfere.



# Dräger

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