Tetrahydrothiophene 1/b

Order No. 81 01 341

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Application Range

Standard Measuring Range:	1 to 10 ppm
Number of Strokes n:	30
Time for Measurement:	approx. 15 min approx. 10 min for a measurement in natural gas.
Standard Deviation:	± 15 to 20 %
Color Change:	violet → yellow brown

Ambient Operating Conditions

Temperature:	0 to 35 °C
Absolute Humidity:	< 30 mg H_2O / L

Reaction Principle

a) Adsorption with H_2S

b) THT + $KMnO_4$ → yellow brown reaction product

Cross Sensitivity

Up to 10 ppm hydrogen sulfide is adsorbed in the pre-tube, causing a brown discoloration. It is impossible to measure tetrahydrothiophene in the presence of mercaptans. Up to 100 ppm of olefines (e. g. ethene, propene) will cause the color of the indicating layer to become lighter, at higher concentrations the olefins are also indicated. Up to 200 ppm methanol does not interfere.

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