Order No.

81 01341

Tetrahydrothiophene 1/b

Standard Measuring Range	:	1 to 10 ppm
Number of Strokes (n)	:	30
Time for Measurement	:	app. 15 min app. 10 min for a measurement in natural gas.
Standard Deviation	:	± 15 to 20 %
Colour 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 sulphide 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 olefines (e.g. ethene, propene) will cause the colour of the indicating layer to become lighter, at higher concentrations the olefins cause plus errors.

Up to 200 ppm methanol does not interfere.

ST-206-2001