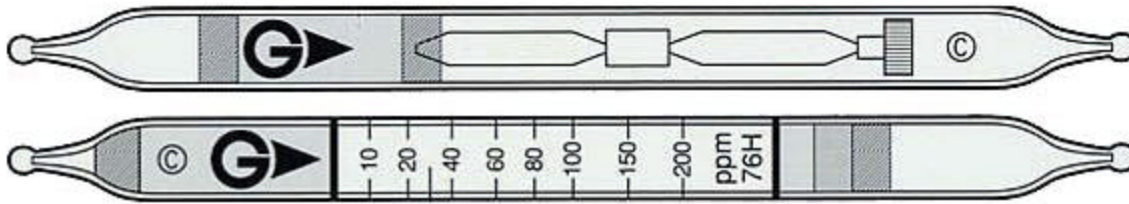


# Tetrahydrothiophene

C<sub>4</sub>Humidity  
Correction<sub>8</sub>S

NO.76H



## Performance

Measuring Range	10 to 200 ppm
Number of Pump Stroke	1
Correction Factor	1
Sampling Time	1.5 minutes per pump stroke
Detecting Limit	2 ppm (n=1)
Color Change	Pink → Pale Yellow
Reaction Formula	Tetrahydrothiophene reduces permanganate to form pale yellowish reaction product. $C_4\text{Humidity Correction}_8\text{S} + \text{MnO}_4 \text{ (Pink)} \longrightarrow \text{Yellow Reaction Product}$
Coefficient of Variation	10% (for 10 to 60 ppm), 5% (for 80 to 200 ppm)
Shelf Life	2 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

## Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Ethyl mercaptan	3 ppm	No	Discolor whole layer to pale pink
Ethylene	5000 ppm	No	Discolor whole layer to pale pink
Propylene	2000 ppm	No	Discolor whole layer to pale pink
Methanol	2000 ppm	No	Discolor whole layer to pale pink
Hydrogen sulfide	300 ppm	No	Discolor whole layer to pale pink

## Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
-	-	-



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