



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)
Colour Change	Pink → Pale Yellow
Reaction Formula	Tetrahydrothiophene reduces permanganate to form pale yellowish reaction product. $C_4H_8S + MnO_4 (Pink) \rightarrow Yellow \text{ Reaction Product}$
Coefficient of Variation	10% (for 10 to 60 ppm), 5% (for 60 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

Substance	Concentration	Interference	Change colour by itself
Ethyl mercaptan	≤3 ppm	No	Discolour whole layer to pale pink
Ethylene	≤5000 ppm	No	Discolour whole layer to pale pink
Propylene	≤2000 ppm	No	Discolour whole layer to pale pink
Methanol	≤2000 ppm	No	Discolour whole layer to pale pink
Hydrogen sulphide	≤300 ppm	No	Discolour whole layer to pale pink

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
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