



Performance

Measuring Range	1 to 10 ppm
Number of Pump Stroke	4
Correction Factor	1
Sampling Time	1.5 minutes per pump stroke
Detecting Limit	0.25 ppm (n=4)
Colour Change	Pink → Pale Yellow
Reaction Formula	Tetrahydrothiophene reduces permanganate to form pale yellowish reaction product. C ₄ H ₈ S + MnO ₄ (Pink) → Yellow Reaction Product
Coefficient of Variation	10% (for 1 to 3 ppm), 5% (for 3 to 10 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	≤1ppm	No	Discolour whole layer to pale pink
Ethylene	≤1000 ppm	No	Discolour whole layer to pale pink
Propylene	≤500 ppm	No	Discolour whole layer to pale pink
Methanol	≤300 ppm	No	Discolour whole layer to pale pink
Hydrogen sulphide	≤30 ppm	No	Discolour whole layer to pale pink

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
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