

Tetrahydrothiophene

C₄H₈S

STT-4L



Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	10 - 200 ppm	Do not extend
No. of Pump Strokes	1 (100 ml)		
Volume Correction Factor (VCF)*	1.0		
Sampling Time	1.5 minutes per pump stroke (100 ml)		
Color Change	Pink → Yellow		
Detection Limit	10 ppm (1 pump stroke)		
Shelf Life	1 year		
Relative standard deviation	± 10 to 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Reaction Principle:

C₄H₈S + KMnO₄ → Yellow reaction product

Possible Interferences:

Compound	Concentration (ppm)	Interference	Color Change / Comments
Propylene	≤ 2000	No	Pale pink (whole layer)
Hydrogen sulphide	≤ 300	No	No Effect
Ethyl mercaptan	≤ 3	No	No Effect
Ethylene	≤ 1000	No	No Effect

Correction For Environmental Parameters:

Temperature (°C):	10	20	30	40
Temperature Correction Factor (TCF) *:	1.2	1	0.6	0.45
Relative humidity	Not necessary between 10 - 90 %.			

Calibration Of The Tube :

Static gas Dilution method.

TLV (TWA): -----

TLV (STEL): -----

Flammable Range: -----