



### Performance

Measuring Range	2 to 50 ppm	50 to 100 ppm
Number of Pump Strokes	3	2
Correction Factor	1	2
Sampling Time	3 minutes per pump stroke	
Detecting Limit	0.2 ppm (n=3)	
Colour Change	Pale Yellow → Yellow	
Reaction Principle	Methyl cyclohexanone reacts with 2,4-dinitrophenylhydrazine to form dinitrophenylhydrazone to produce yellow in colour. $C_7H_{12}O + C_6H_3(NO_2)_2NHNH_2 \longrightarrow (CH_3)_2C:NNHC_6H_3(NO_2)_2$	
Coefficient of Variation	15% (for 2 to 10 ppm), 10% (for 10 to 50 ppm)	
Shelf Life	2 Years	
Corrections for temperature & humidity	Temperature correction is necessary	
Store the tubes in the refrigerator to keep at 10°C (50°F) or below.		

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ketones	-	Plus error	Discolours to yellow

### Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
50ppm	75ppm	1.15% or higher