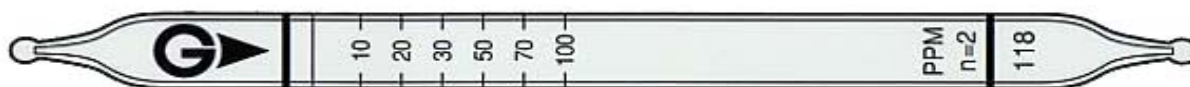


Cyclohexanol

C₆H₁₁OH

NO.118



Performance

Measuring Range	5 to 100 ppm
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	2 minutes per pump stroke
Detecting Limit	1 ppm (n=2)
Colour Change	Yellow → Pale blue
Reaction Principle	Cyclohexanol reduces potassium dichromate to form chromic sulphate, which is pale blue in colour $\text{C}_6\text{H}_{11}\text{OH} + \text{Cr}^{6+} + \text{H}_3\text{PO}_4 \rightarrow \text{Cr}^{3+}$
Coefficient of Variation	15% (for 5 to 20 ppm), 10% (for 20 to 100 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
Alcohols	-	Plus error	Produces pale blue stain
Aromatic hydrocarbons	-	Plus error	Produces pale blue stain

Calibration gas generation Vapour pressure method

TLV-TWA	TLV-STEL	Explosive range
50ppm	-	1.2 to 5.3%