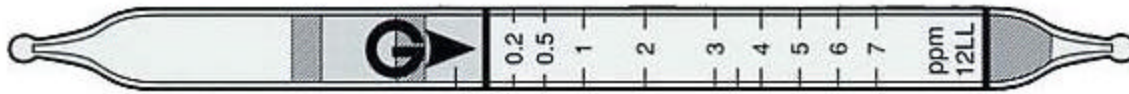


Hydrogen cyanide HCN

NO.12LL

**Performance**

Measuring Range	0.2 to 7 ppm
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	2 minutes per pump stroke
Detecting Limit	0.05 ppm (n=2)
Color Change	Yellow → Pink
Reaction Principle	Hydrogen cyanide reacts with mercuric Chloride to form the hydrogen chloride then discolors the indicator to pink. $2\text{HCN} + \text{HgCl}_2 \longrightarrow \text{Hg}(\text{CN})_2 + 2\text{HCl}$ HCl + Base → Chloride product
Coefficient of Variation	10% (for 0.2 to 2 ppm), 5% (for 3 to 7 ppm)
Shelf Life	2 Years
Corrections for temperature & humidity	Humidity correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Hydrogen sulfide	1 ppm	Plus error	Red discoloration
Sulfur dioxide	1 ppm	Plus error	Red discoloration

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
-	C 4.7 ppm	5.6 to 40%