Hydrogen cyanide

NO.12L

HCN

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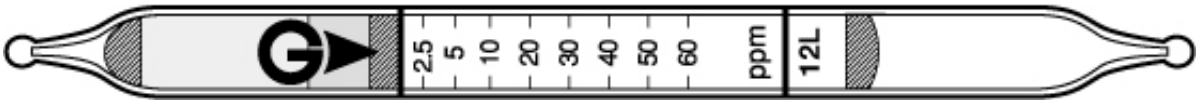

Performance

Measuring Range	0.5 to 1.25 ppm	1.25 to 2.5 ppm	2.5 to 60 ppm	60 to150 ppm
Number of Pump Strokes	5	2	1	1/2
Correction Factor	0.2	0.5	1	2.5
Sampling Time	45 seconds per pump stroke			30 seconds
Detecting Limit	0.1 ppm (n=5)			
Colour Change	Yellow →Pink			
Reaction Principle	Hydrogen cyanide reacts with the reagent to form intermediate material which stains indicator pink.			
Coefficient of Variation	10% (for 2.5 to 20 ppm), 5% (for 20 to 60 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 (NOTE)

Substance	Concentration	Interference	Change colour by itself to
Ammonia	≧2.5 ppm	–	No discolouration
Hydrogen chloride	≧5.0 ppm	+	Pink at 5.0 ppm
Nitric acid	≧10.0 ppm	+	Pink at 10.0 ppm
Sulphur dioxide	≧1.0 ppm	+	Pink at 0.8 ppm
Nitrogen dioxide	≧10.0 ppm	+	Pink at 8.0 ppm
Hydrogen fluoride	≧25.0 ppm	+	Pink at 21.0 ppm
Hydrogen sulphide	0.5 ppm	+	Pink at 0.5 ppm

Other substance measurable with this detector tube

Substance	Correction Factor	No. of pump strokes	Measuring Range

Acetone cyanohydrine	1.0	1	2.5 to 60 ppm
Boron trichloride	0.9	1	2.25 to 54 ppm

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
-	C 4.7 ppm (2014)	5.6 to 40%

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