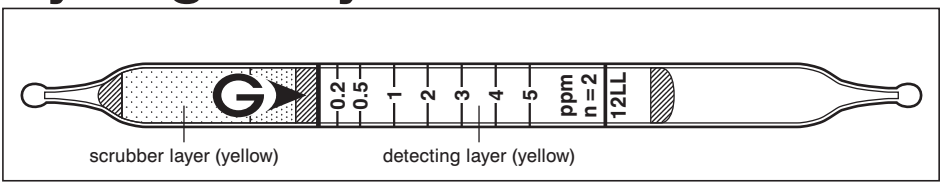
Hydrogen Cyanide HCN No.12LL



Performance

Measuring range	0.2 to 5 ppm	5 to 10 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)
Correction factor	1	2
Sampling time	3 min	1.5 min

Detecting limit : 0.05 ppm (2 pump strokes)
Colour change : Yellow → Pink
Corrections for temperature & humidity : Unnecessary
Relative standard deviation : 5 % (for 0.2 to 5 ppm)
Shelf life : 2 years

Reaction principle

Hydrogen cyanide reacts with the reagent to form intermediate material which stains indicator pink.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≧ 2.2 ppm	−	No
Hydrogen chloride	≧ 1.6 ppm	+	Pink (≧2.0 ppm)
Nitric acid	≧ 2.0 ppm	+	Pink (≧3.0 ppm)
Sulphur dioxide	≧ 0.5 ppm	+	Pink (≧0.6 ppm)
Nitrogen dioxide	≧ 5.0 ppm	+	Pale pink (≧5.5 ppm)
Hydrogen fluoride	≧ 10.0 ppm	+	Pink (≧15.0 ppm)
Hydrogen sulphide		+	Pink

Calibration gas generation

Permeation tube method