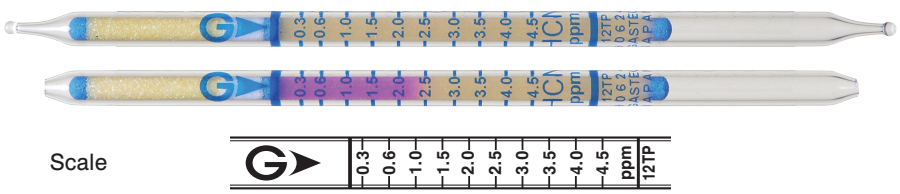
Detector tube

Hydrogen Cyanide HCN No.12TP



Scale

Performance

Measuring range	0.3 to 4.5 ppm	4.5 to 9.0 ppm
Sampling rate	100 mL/min (1000 mL)	50 mL/min (500 mL)
Correction factor	1	2
Sampling time	10 min	10 min

Detecting limit : 0.05 ppm (1000 mL)
Colour change : Yellow → Pink
Operating conditions : Temperature 5 to 40 °C (41 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 5 % (for 0.3 to 4.5 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 12 months

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	≧ 1 ppm	−	No
Hydrogen chloride	≧ 1 ppm	+	Pink
Nitric acid	≧ 2 ppm	+	Pink
Sulphur dioxide		+	Pink
Nitrogen dioxide	≧ 3 ppm	+	Pale pink
Hydrogen fluoride	≧ 2 ppm	+	Pink
Hydrogen sulphide		+	Pink
Carbon monoxide		No	No
Carbon dioxide		No	No

Calibration gas generation

Permeation tube method