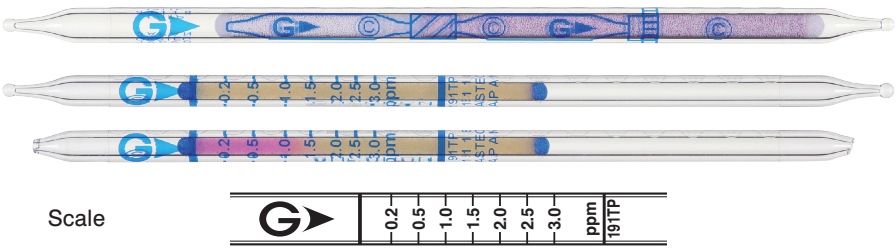
Detector tube

Acrylonitrile CH_2:CHCN No.191TP



Performance

When used, these tubes are to be connected.

Measuring range	0.2 to 3.0 ppm	3.0 to 12.6 ppm
Sampling rate	100 mL/min（1000 mL）	50 mL/min（500 mL）
Correction factor	1	4.2
Sampling time	10 min	10 min

Detecting limit : 0.03 ppm（1000 mL）
Colour change : Yellow → Pink
Operating conditions : Temperature 5 to 40 °C (41 to 104 °F) correction used
Relative humidity 10 to 90 % correction not used
Relative standard deviation : 10 %（for 0.2 to 1.0 ppm）,5 %（for 1.0 to 3.0 ppm）
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 24 months

Reaction principle

Acrylonitrile reacts with oxydising agent to form intermediate material which stains indicator pink.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen chloride	≦ 5 ppm	No	Pink（≧ 10 ppm）
Hydrogen cyanide		＋	Pink
Acetone	≧ 10 ppm	＋	No
Acetone cyanohidrin		＋	Pink
Ethyl acetate	≧ 30 ppm	＋	Pink（≧ 200 ppm）
Toluene	≧ 0.2 ppm	－	Pink（≧ 70 ppm）
Hexane	≦ 40 ppm	No	No
Methanol	≧ 40 ppm	－	No

Calibration gas generation

Diffusion tube method