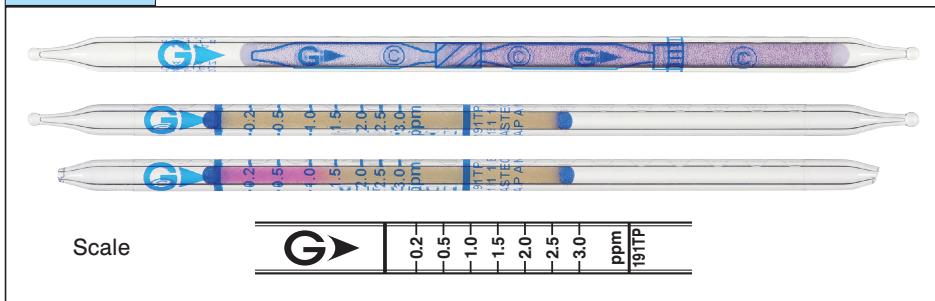


Detector tube

# Acrylonitrile $\text{CH}_2:\text{CHCN}$ No.191TP



## Performance

When used, these tubes are to be connected. See page 2-3.

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