

**Acrylonitrile CH<sub>2</sub>:CHCN****Part No.:191TP**

Detector tube

**Acrylonitrile CH<sub>2</sub>:CHCN No.191TP**

Scale

**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