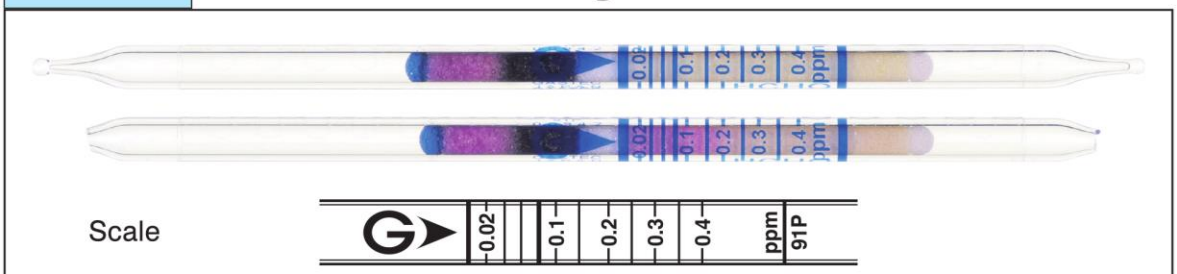
Formaldehyde HCHO

Part No.: 91P

Detector tube **Formaldehyde** HCHO **No.91P**



Performance

Measuring range	0.02 to 0.4 ppm	0.4 to 1.44 ppm
Sampling rate	200 mL/min (6000 mL)	200 mL/min (2000 mL)
Correction factor	1	3.6
Sampling time	30 min	10 min

Detecting limit : 0.01 ppm (6000 mL)
Colour change : Yellow → Pink
Operating conditions : Temperature 5 to 35 °C (41 to 95 °F) correction used
Relative humidity 20 to 90 % correction not used
Relative standard deviation : 10 % (for 0.02 to 0.1 ppm), 5 % (for 0.1 to 0.4 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 12 months (in the refrigerator)

Reaction principle

$3HCHO + (NH_2OH)_3H_3PO_4 \rightarrow H_3PO_4$
H_3PO_4 + Base → Phosphate

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≦ 2 ppm	No	No
Nitrogen dioxide	≦ 1 ppm	No	No
Acetaldhyde		+	Pink
Acetone	≦ 0.3 ppm	No	Pink around inlet
Ethanol		No	No
Ethyl acetate		No	No
p-Dichlorobenzene		No	No
Toluene		No	No

Calibration gas generation

Permeation tube method

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