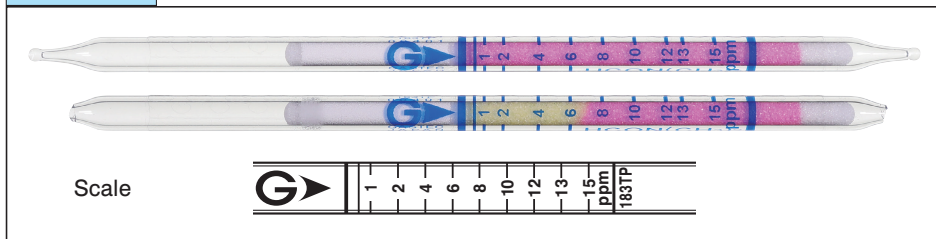


Detector tube

N,N-Dimethylformamide $\text{HCON}(\text{CH}_3)_2$ No.183TP



Performance

The minimum scale value (0.5ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	(0.5) to 15 ppm	15 to 30 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 :	0.1 ppm (1000 mL)
Colour change :	Pink → Yellow
Operating conditions :	Temperature 5 to 40 °C (41 to 104 °F) correction used Relative humidity 20 to 90 % correction not used
Relative standard deviation :	15 % (for 0.5 to 4 ppm) , 5 % (for 4 to 15 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	24 months

Reaction principle

N,N-Dimethylformamide reacts with reagent to produce amines which turn the indicator yellow.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≧ 0.1 ppm	+	Yellow at 0.1 ppm
Amines	≧ 0.1 ppm	+	Yellow at 0.1 ppm
N,N-Dimethylhydrazine	≧ 0.1 ppm	+	Yellow at 0.1 ppm
Toluene	≧ 170 ppm	No	No
Carbon dioxide	≧ 1500 ppm	-	No
Chlorine	≧ 1000 ppm	-	Decolourizes at 1.0 %

Other substance measurable with this detector tube

Substance	Correction	Sampling Correction	Measuring range
N,N-Dimethylacetamide	by scale	100 mL/min × 10 min	3 to 57.5 ppm

Calibration gas generation

Diffusion tube method