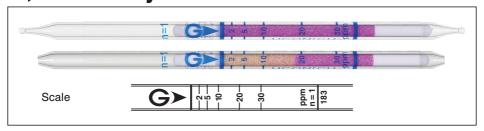
N,N-Dimethylformamide HCON(CH3)2 No.183



Performance

| Measuring range | 0.8 to 2 ppm | 2 to 30 ppm | 30 to 90 ppm |
|------------------------|--------------|-------------|--------------|
| Number of pump strokes | 2 (200 mL) | 1 (100 mL) | 1/2(50 mL) |
| Correction factor | 0.4 | 1 | 3 |
| Sampling time | 2 min | 1 min | 30 sec |

 $\begin{array}{lll} \mbox{Detecting limit:} & \mbox{0.1 ppm (2 pump strokes)} \\ \mbox{Colour change:} & \mbox{Pink} \rightarrow \mbox{Pale vermilion} \\ \end{array}$

Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used Relative humidity 30 to 90 % correction not used

Relative standard deviation : 15 $\%\,(\text{for 2 to 10 ppm})$, 10 $\%\,(\text{for 10 to 30 ppm})$

Tube quantity and number of tests per box: 10 tubes for 10 tests

Shelf life: 36 months

Reaction principle

HCON $(CH_3)_2 + NaOH \rightarrow R \cdot NH_2$ $2R \cdot NH_2 + H_2SO_4 \rightarrow (R \cdot NH_3)_2SO_4$

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Changes colour by itself to |
|-----------|---------------|--------------|-----------------------------|
| Amines | | + | |
| Ammonia | | + | Pale vermilion |
| Hydrazine | | + | J |

Calibration gas generation

Diffusion tube method