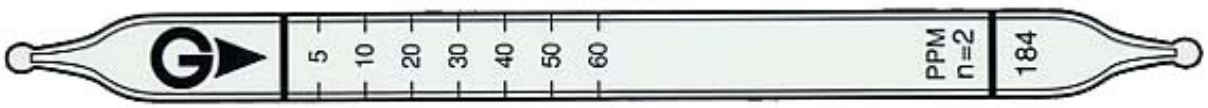
## N,N-Dimethyl acetamide $CH_3CON(CH_3)_2$ NO.184




**Performance**

| | | | |
|---|---|---|---|
| **Measuring Range** | 1.5 to 5 ppm | 5 to 60 ppm | 60 to 240 ppm |
| **Number of Pump Strokes** | 4 | 2 | 1 |
| **Correction Factor** | 0.3 | 1 | 4 |
| **Sampling Time** | 2 minutes per pump stroke | | |
| **Detecting Limit** | 0.5 ppm (n=4) | | |
| **Colour Change** | Pink ⟶ Pale yellow | | |
| **Reaction Principle** | $CH_3CON(CH_3)_2 + NaOH \longrightarrow R{\cdot}NH_2$<br>$2R{\cdot}NH_2 + H_2SO_4 \longrightarrow (R{\cdot}NH_2)_2SO_4$ | | |
| **Coefficient of Variation** | 15% (for 5 to 20 ppm), 10% (for 20 to 60 ppm) | | |
| **Shelf Life** | 3 Years | | |
| **Corrections for temperature & humidity** | Temperature correction is necessary | | |
| **Store the tubes at cool and dark place.** | | | |

**Possible coexisting substances and their interferences**

| Substance | Concentration | Interference | Change colour by itself |
|---|---|---|---|
| Amines | - | Plus error | Pale yellow |
| Ammonia | - | Plus error | Pale yellow |
| Hydrazine | - | Plus error | Pale yellow |

**Calibration gas generation** Diffusion tube method

| TLV-TWA | TLV-STEL | Explosive range |
|---|---|---|
| 10ppm | - | - |