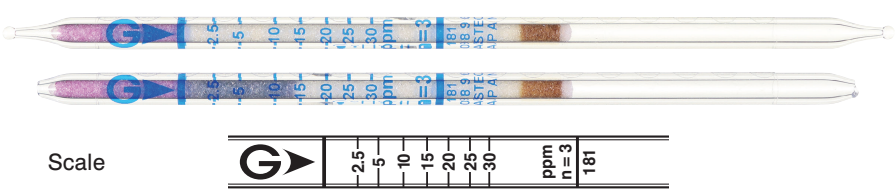
# Aniline $C_6H_5NH_2$ No.181




Scale




## Performance

| Measuring range | 1.1 to 2.5 ppm | 2.5 to 30 ppm | 30 to 42 ppm | 42 to 70 ppm |
|---|---|---|---|---|
| Number of pump strokes | 5 (500 mL) | 3 (300 mL) | 2 (200 mL) | 1 (100 mL) |
| Correction factor | 0.44 | 1 | 1.4 | 3.5 |
| Sampling time | 5 min | 3 min | 2 min | 1 min |

Detecting limit : 0.25 ppm (5 pump strokes)
Colour change : Pale yellow → Pale green
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 %(for 2.5 to 10 ppm), 5 %(for 10 to 30 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

## Reaction principle

$C_6H_5NH_2 + Cr^{6+} + H_3PO_4 \rightarrow Cr^{3+}$

## Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Changes colour by itself to |
|---|---|---|---|
| Aromatic amines | | + | Pale green |
| Ammonia | ≧ 1/10 | + | No |
| Other amines | ≧ 1/10 | + | No |

## Other substances measurable with this detector tube

| Substance | Correction | No. of pump strokes | Measuring range |
|---|---|---|---|
| N,N-Dimethylaniline | Factor : 1.0 | 3 | 2.5 to 30 ppm |
| N-Methylaniline | Factor : 1.4 | 2 | 3.5 to 42 ppm |
| o-Toluidine | Factor : 2.0 | 2 | 5 to 60 ppm |

## Calibration gas generation

Diffusion tube method

(Last updated: Mar. 2026)