



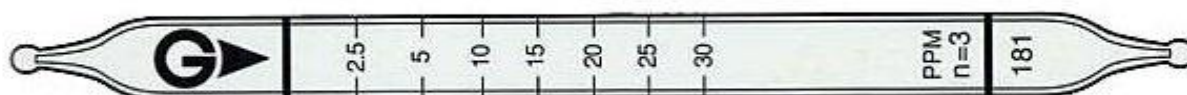
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## Gastec Tube Datasheet

Aniline

C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>

NO.GAS181



### Performance

Measuring Range	1.25 to 2.5 ppm	2.5 to 30 ppm	30 to 60 ppm
Number of Pump Strokes	5	3	2
Correction Factor	1/2	1	2
Sampling Time	3 minutes per pump stroke		
Detecting Limit	0.25 ppm (n=5)		
Colour Change	Pale yellow → Pale green		
Reaction Principle	Aniline reduces Sodium Dichromate to form Phosphate, which is pale green in colour. $C_6H_5NH_2 + Cr^{6+} \rightarrow Cr^{3+}$		
Coefficient of Variation	10% (for 2.5 to 10 ppm), 5% (for 10 to 30 ppm)		
Shelf Life	Up to 3 Years		
Corrections for temperature & humidity	Unnecessary		
<b>Store the tubes at cool and dark place.</b>			

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ammonia	≥1/10 time	Plus error	No discoloration
Amines	≥1/10 time	Plus error	No discoloration
Aromatic amines	-	Plus error	Produces pale green discolouration

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**Other substance measurable with this detector tube**

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

**Calibration gas generation** Diffusion tube method

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