

**Performance**

<b>Measuring Range</b>	1.25 to 2.5 ppm	2.5 to 30 ppm	30 to 60 ppm
<b>Number of Pump Strokes</b>	5	3	2
<b>Correction Factor</b>	1/2	1	2
<b>Sampling Time</b>	3 minutes per pump stroke		
<b>Detecting Limit</b>	0.25 ppm (n=5)		
<b>Colour Change</b>	Pale yellow → Pale green		
<b>Reaction Principle</b>	Aniline reduces sodium dichromate to form phosphate, which is pale green in colour. $\text{C}_6\text{H}_5\text{NH}_2 + \text{Cr}^{6+} \longrightarrow \text{Cr}^{3+}$		
<b>Coefficient of Variation</b>	10% (for 2.5 to 10 ppm), 5% (for 10 to 30 ppm)		
<b>Shelf Life</b>	3 Years		
<b>Corrections for temperature &amp; humidity</b>	Unnecessary		

Store the tubes at cool and dark place.

**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

**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

TLV-TWA	TLV-STEL	Explosive range
2ppm	-	1.3 to 11%