

**Performance**

Measuring Range	0.5 to 10 ppm
Number of Pump Strokes	1
Correction Factor	1
Sampling Time	1 minutes per pump stroke
Detecting Limit	0.1ppm (n=1)
Colour Change	Pink → Yellow to Pale orange
Reaction Principle	Amines neutralize sulphuric acid to discolour the reagent to Yellow to Pale orange or greyish purple. $2R \cdot NH_2 + H_2SO_4 \rightarrow (R \cdot NH_3)_2SO_4$
Coefficient of Variation	10% (for 0.5 to 2 ppm), 5% (for 2 to 10 ppm)
Shelf Life	2 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Other substance measurable with this detector tube

The Tube 180L can also be used to detect the following substances with correction factors

Substance	Pump Stroke	Correction	Detecting Range (ppm)	Colour Change
Allylamine	1	0.8	0.4 to 8	Yellow or Pale orange
Butylamine	1	1.1	0.55 to 11	Yellow or Pale orange
Cyclohexylamine	1	1.0	0.5 to 10	Yellow or Pale orange
Di-n-butylamine	1	0.8	0.4 to 8	Yellow or Pale orange
Diethylamine	1	0.9	0.45 to 9	Yellow or Pale orange
Diethylaminoethanol	1	1.2	0.6 to 12	Yellow or Pale orange
Diethylenetriamine	1	1.9	0.95 to 19	Greyish purple
Diisopropylamine	1	0.6	0.3 to 6	Yellow or Pale orange
Dimethylamine	1	0.9	0.45 to 9	Yellow or Pale orange
2-Dimethylaminoethanol	1	1.3	0.65 to 13	Yellow or Pale orange
Dimethylaminopropylamine	1	1.2	0.6 to 12	Yellow or Pale orange
N,N-Dimethylethylamine	1	0.6	0.3 to 6	Yellow or Pale orange
Dipropylamine	1	0.7	0.35 to 7	Yellow or Pale orange
Ethanolamine	1	3.9	1.95 to 39	Greyish purple
Ethylamine	1	0.9	0.45 to 9	Yellow or Pale orange

Ethylenediamine	1	1.8	0.9 to 18	Yellow or Pale orange
N-Ethylmorpholine	1	0.6	0.3 to 6	Yellow or Pale orange
Hexamethylenediamine	1	3.1	1.55 to 31	Greyish purple
Hexylamine	1	1.3	0.65 to 13	Yellow or Pale orange
Isopropylamine	1	0.9	0.45 to 9	Yellow or Pale orange
Methylamine	1	1.0	0.5 to 10	Yellow or Pale orange
Morpholine	1	1.0	0.5 to 10	Yellow or Pale orange
N-Methylmorpholine	1	0.6	0.3 to 6	Yellow or Pale orange
Pentamethylenediamine	1	1.5	0.75 to 15	Greyish purple
Propylamine	1	1.0	0.5 to 10	Yellow or Pale orange
Propyleneimine	1	0.7	0.35 to 7	Yellow or Pale orange
Tetramethylenediamine	1	1.6	0.8 to 16	Greyish purple
Triethylamine	1	0.6	0.3 to 6	Yellow or Pale orange
Trimethylamine	1	0.5	0.25 to 5	Yellow or Pale orange

Calibration gas generation Permeation tube method or diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
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