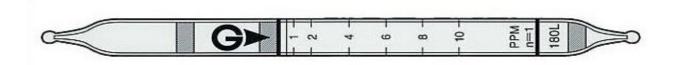
Amines R·NH2 No.180L



## 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·NH₂ + H₂SO₄ → (R·NH₃)₂SO₄			
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

1	1.8	0.9 to 18	Yellow or Pale orange
1	0.6	0.3 to 6	Yellow or Pale orange
1	3.1	1.55 to 31	Greyish purple
1	1.3	0.65 to 13	Yellow or Pale orange
1	0.9	0.45 to 9	Yellow or Pale orange
1	1.0	0.5 to 10	Yellow or Pale orange
1	1.0	0.5 to 10	Yellow or Pale orange
1	0.6	0.3 to 6	Yellow or Pale orange
1	1.5	0.75 to 15	Greyish purple
1	1.0	0.5 to 10	Yellow or Pale orange
1	0.7	0.35 to 7	Yellow or Pale orange
1	1.6	0.8 to 16	Greyish purple
1	0.6	0.3 to 6	Yellow or Pale orange
1	0.5	0.25 to 5	Yellow or Pale orange
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1     0.6       1     3.1       1     1.3       1     0.9       1     1.0       1     1.0       1     0.6       1     1.5       1     1.0       1     0.7       1     1.6       1     0.6	1       0.6       0.3 to 6         1       3.1       1.55 to 31         1       1.3       0.65 to 13         1       0.9       0.45 to 9         1       1.0       0.5 to 10         1       1.0       0.5 to 10         1       0.6       0.3 to 6         1       1.5       0.75 to 15         1       1.0       0.5 to 10         1       0.7       0.35 to 7         1       1.6       0.8 to 16         1       0.6       0.3 to 6

## Calibration gas generation Permeation tube method or diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
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