

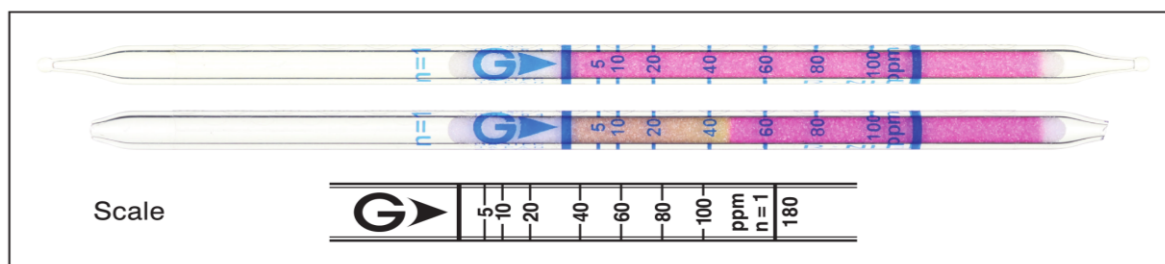


Amines R·NH₂

Part No.: 180

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No.180

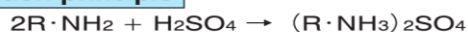


Performance

This detector tube is calibrated with Monomethyl amine.

Measuring range	5 to 100 ppm (See the table below for individual amines)
Number of pump strokes	1 (100 mL)
Correction factor	See the table below.
Sampling time	30 sec
Detecting limit :	0.5 ppm (1 pump stroke)
Colour change :	Pink → See the table below
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	10 % (for 5 to 20 ppm) , 5 % (for 20 to 100 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	36 months

Reaction principle



Amines measurable with this detector tube

Substance	n	Correction factor	Measuring range (ppm)	Changes colour to
Allylamine	1	1.7	8.5 - 170	Yellow
Ammonia	1	0.3	1.5 - 30	Yellow
n-Butylamine	1	1.6	8 - 160	Grayish red to Brown
tert-Butylamine	1	1.1	5.5 - 110	Pale brown
Di-n-Butylamine	1	1.0	5 - 100	Pale orange
Cyclohexylamine	1	1.4	7 - 140	Pale yellowish orange
Diethylamine	1	1.1	5.5 - 110	Pale brown
Diethylethanolamine	1	1.2	6 - 120	Pale brown
Diisopropylamine	1	1.0	5 - 100	Pale orange
Dimethylethanolamine	1	1.3	6.5 - 130	Pale orange to Yellow
Dimethylamine	1	1.1	5.5 - 110	Pale yellowish orange
Dimethylaminopropylamine	1	1.6	8 - 160	Grayish red
N,N-Dimethylethylamine	1	0.8	4 - 80	Yellow
Dipropylamine	1	0.8	4 - 80	Yellow
N-Ethylmorpholine	1	1.0	5 - 100	Yellow
Ethylamine	1	1.0	5 - 100	Yellow
Ethylenediamine	1	2.8	14 - 280	Yellow
n-Hexylamine	1	1.8	9 - 180	Pale orange
Isopropylamine	1	1.1	5.5 - 110	Pale yellowish orange
Methylamine	1	1.0	5 - 100	Pale brown to Yellow
N-Methylmorpholine	1	1.0	5 - 100	Yellow
N-Methyl pyrrolidone	1	2.7	13.5 - 270	White
Monoethanolamine	3	1.4	7 - 140	Yellow
Morpholine	1	1.8	9 - 180	Yellow
Propylamine	1	1.2	6 - 120	Pale yellowish orange
Propyleneimine	1	1.1	5.5 - 110	Yellow
Tetramethylenediamine	1	1.7	8.5 - 170	Purple to Yellow
Triethylamine	1	0.9	4.5 - 90	Yellow
Trimethylamine	1	0.7	3.5 - 70	Yellow

Calibration gas generation

Permeation tube method