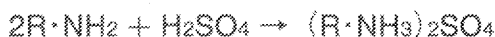


Performance

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	1 min
Detecting limit :	0.5 ppm (1 pump stroke)
Colour change :	Pink → See the table below
Corrections for temperature & humidity :	Temperature correction is necessary.
Relative standard deviation :	10 % (for 5 to 20 ppm), 5 % (for 20 to 100 ppm)
Shelf life :	3 years

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	Salmon pink
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	Salmon pink
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	Salmon pink
Methylamine	1	1.0	5-100	Pale brown to Yellow
N-Methylmorpholine	1	1.0	5-100	Yellow
N-Methyl pyrrolidone	1	2.7	50-270	White
Monoethanolamine	3	1.4	7-140	Yellow
Morpholine	1	1.8	9-180	Yellow
Propylamine	1	1.2	6-120	Salmon pink
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

Chlorine, hydrogen chloride, nitric acid and water vapour are trapped in the pretreatment (white) layer.

Calibration gas generation

Permeation tube method or diffusion tube method