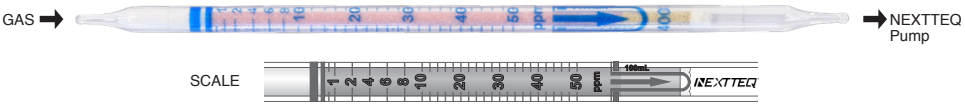
ACETIC ACID CH_3CO_2H

Tube No. NX102



Nextteq Detector Tubes
Short Term

1. PERFORMANCE

1) Measuring range : 1.25-125 ppm 0.5-50ppm
   Number of pump strokes : 1/2 (50mL) 1 (100mL)
2) Sampling time : 1.5 minutes / 1 pump stroke
3) Detectable limit : 0.2 ppm
4) Shelf life : 3 years
5) Operating temperature : 0~40°C
6) Temperature compensation : Necessary (See "TABLE OF COEFFICIENT FOR TEMPERATURE CORRECTION")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Color change : Pale pink→Yellow

2. RELATIVE STANDARD DEVIATION

RSD-low: 15% RSD-mid.: 10% RSD-high: 10%

3. CHEMICAL REACTION

By reacting with alkali, pH indicator is discolored.

$CH_3COOH+Na_2SiO_3 \cdot nH_2O \rightarrow CH_3CO_2Na+H_2O$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Sulfur Dioxide		Similar stain is produced.	1/20×Acetic Acid	Higher readings are given.
Nitrogen Dioxide	300	〃	10	Unclear stain is produced.
Hydrogen Chloride FIG.1		Pink stain is produced.	2×Acetic Acid	Higher readings are given.
Chlorine FIG.2		Yellow stain is produced.	5	〃

(NOTE)

When using 1/2 pump stroke, the following formula is avaiable to determine the actual concentration.
Actual concentration = 2.5 x concentration reading from the tube

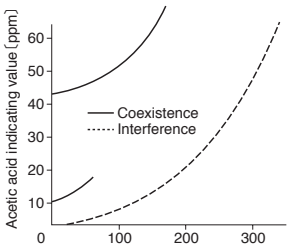


FIG.1 Influence of Hydrogen chloride

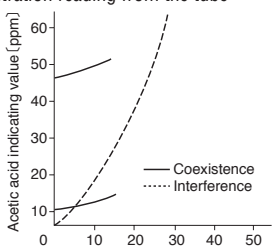


FIG.2 Influence of Chlorine

TABLE OF COEFFICIENT FOR TEMPERATURE CORRECTION (BASED ON 20°C)

Temperature (°C)	0	5	10	15	20	25	30	35	40
Correction factor	1.24	1.17	1.10	1.05	1.00	0.95	0.90	0.85	0.80

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