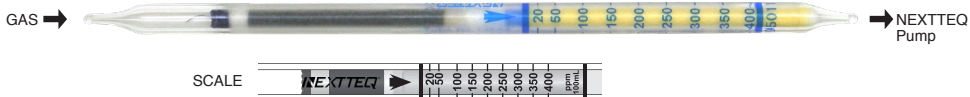


Tube No. **NX137**



Nexteq Detector Tubes
Short Term



1. PERFORMANCE

- Measuring range : 42-840 ppm 20-400 ppm 9.2-184 ppm 4.2-84 ppm
Number of pump strokes : 1/2 (50mL) 1 (100mL) 2 (200mL) 4 (400mL)
- Sampling time : 1.5 minutes / 1 pump stroke
- Detectable limit : 0.5 ppm (4 pump strokes)
- Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0~10°C)
- Operating temperature : 5~40°C
- Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- Reading : Direct reading from the scale calibrated by 1 pump stroke
- Color change : Yellow→Red

2. RELATIVE STANDARD DEVIATION

RSD-low: 10% RSD-mid.: 5% RSD-high: 5%

3. CHEMICAL REACTION

Hydrogen Chloride is produced by an oxidizer and pH indicator is discolored.
 $\text{CICH=CHCI} + \text{PbO}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{HCl}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Trichloroethylene	Similar stain is produced.	3	Higher readings are given.
Vinyl Chloride	"	300	"
Hydrogen Chloride	"	10	"
Chlorine	Pale red stain is produced.	15	"

(NOTE)

This tube is calibrated based on Cis-1,2-Dichloroethylene. In case of trans-1,2-Dichloroethylene measurement, correct the reading value by the temperature correction table if necessary, then multiply the value by 1.1.

1. When using 1/2 pump stroke, the following formula is available to determine the actual concentration.

Actual concentration = 2.1 x concentration reading from the tube

2. When using 2 pump strokes, the following formula is available to determine the actual concentration.

Actual concentration = 0.46 x concentration reading from the tube

3. When using 4 pump strokes, the following formula is available to determine the actual concentration.

Actual concentration = 0.21 x concentration reading from the tube

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)	
	5 °C (41 °F)	10 °C ~ 40 °C (50 °F ~ 104 °F)
400	475	400
350	415	350
300	355	300
250	295	250
200	235	200
150	175	150
100	115	100
50	55	50
20	20	20