



# Gas Detection Tube Data Sheet

## Nitrogen Dioxide NO<sub>2</sub> 10-117-10

	Extended Range	Standard Range	Extended Range
Range (ppmv)	Do Not Extend	0.5-30	Do Not Extend
No. of Pump Strokes		1	
Sample Volume (mL)		100	
Sample Time (min)		1.5	
Correction Factor		1	

Precision (Relative Standard Deviation)\*: ≤ ± 20%

Linearity with No. of Pump Strokes: Non-linear, do not extend

Humidity: No effect between 0-90%RH.

Temperature Range: No effect between 0 - 40°C(32 - 104°F)

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Yellow

Reaction Principle: NO<sub>2</sub> + o-Tolidine → Nitrated yellow product

<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
CO	3000	0
CO <sub>2</sub>	200000	0
SO <sub>2</sub>	200	0
CH <sub>4</sub>	25000	0
H <sub>2</sub> S	100	0
Acetone	10000	0
Benzene	5	0
n-Hexane	100	0
Isobutylene	100	0
Toluene	100	0
Cl <sub>2</sub>	50	Entire tube <sup>^</sup>
NO	500	1 <sup>#</sup>

\*Data based on RAE pumps and tubes used in standard range.

<sup>^</sup>Cl<sub>2</sub> results in light yellow stain.

<sup>#</sup>NO results in orange stain.

Other Possible Interferences: Reducing gases.

Caution: Dispose of spent or expired tubes according to local regulations.  
Possibly hazardous materials are given under the section Reaction Principle.