

**Ethylene oxide**C<sub>2</sub>H<sub>4</sub> Humidity  
Correction<sub>4</sub>O**NO.163****Performance**

<b>Measuring Range</b>	(0.05 ) to 3%
<b>Number of Pump Strokes</b>	1
<b>Correction Factor</b>	1
<b>Sampling Time</b>	1 minute per pump stroke
<b>Detecting Limit</b>	0.02% (n = 1)
<b>Color Change</b>	Orange → Green
<b>Reaction Principle</b>	Ethylene oxide reduces potassium dichromate to form chromic sulfate, which is green in color
<b>Coefficient of Variation</b>	10% (for 0.05 to 1.0 %), 5% (for 1.0 to 3.0 %)
<b>Shelf Life</b>	3 Years
<b>Corrections for temperature &amp; humidity</b>	Unnecessary
<b>Store the tubes at cool and dark place.</b>	

**Possible coexisting substances and their interferences (NOTE)**

<b>Substance</b>	<b>Concentration</b>	<b>Interference</b>	<b>Change color by itself</b>
Aromatic HCs	-	Plus error	Produce green stain
Alcohols, Esters, Ethers	-	Plus error	Produce green stain

**Other substance measurable with this detector tube**

<b>Substance</b>	<b>Correction</b>	<b>No. of Pump Strokes</b>	<b>Measuring Range</b>
1,4-Dioxane	Factor: 2.0	1	0.1 to 6%
Propylene oxide	Factor: 1.3	1	0.065 to 3.9%

**Calibration gas generation**    Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
1ppm	-	3.6 to 100%



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