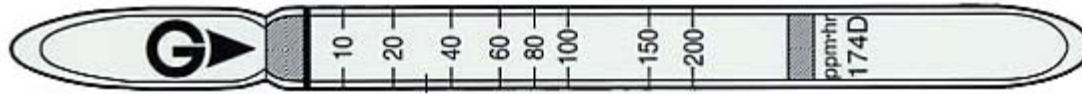


**1,3-Butadiene****NO.174D****Performance**

<b>Measuring Range</b>	1.3 to 200 ppm
<b>Sampling Hours</b>	1 to 8 hours
<b>Detecting Limit</b>	1.3 ppm (8 hours)
<b>Color Change</b>	Reddish purple → Pale brown
<b>Reaction Principle</b>	Butadiene reacts with permanganate to produce light brown reaction product.
<b>Coefficient of Variation</b>	10% (for 10 to 200 ppm×hr)
<b>Shelf Life</b>	2 Years
<b>Corrections for temperature &amp; humidity</b>	Temperature correction is necessary
<b>Store the tubes at cool and dark place.</b>	

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

<b>Substance</b>	<b>Interference</b>	<b>Change color by itself</b>
Unsaturated hydrocarbons	Plus error	Produce pale brown discoloration

**Other substance measurable with this detector tube**

<b>Substance</b>	<b>Correction</b>	<b>Measuring range</b>
Ethylene	Factor: 1.2	1.5 to 240 ppm
Vinyl chloride	Factor: 1.2	1.5 to 240 ppm
Isoprene	Factor: 2.0	2.5 to 400 ppm
Trans-1,2-Dichloroethylene	Factor: 3.0	3.8 to 600 ppm

**Calibration gas generation** Permeation tube method

<b>TLV-TWA</b>	<b>TLV-STEL</b>	<b>Explosive range</b>
2ppm	-	2.0 to 12%