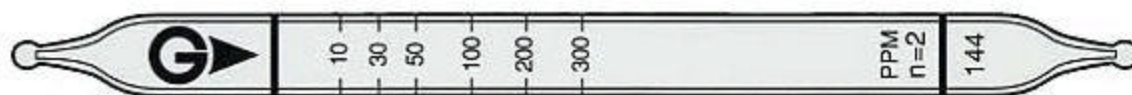


**Isobutyl acetate**

$\text{CH}_3\text{CO}_2\text{CH}_2\text{CH}(\text{CH}_3)_2$   
(i-CH<sub>3</sub>CO<sub>2</sub>C<sub>4</sub>Humidity Correction 9)

**no.144****Performance**

<b>Measuring Range</b>	10 to 300 ppm
<b>Number of Pump Strokes</b>	2
<b>Correction Factor</b>	1
<b>Sampling Time</b>	4 minutes per pump stroke
<b>Detecting Limit</b>	2 ppm (n=2)
<b>Color Change</b>	Yellow → Blackish brown → Pale blue after few minutes
<b>Reaction Principle</b>	Isobutyl acetate reduces chromic acid to produce blackish brown.
<b>Coefficient of Variation</b>	15% (for 10 to 100 ppm), 10% (for 100 to 300 ppm)
<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)

Substance	Concentration	Interference	Change color by itself
Alcohols	-	Plus error	Produce blackish brown then turns to pale blue
Ketones	-	Plus error	Produce blackish brown then turns to pale blue
Esters	-	Plus error	Produce blackish brown then turns to pale blue

**Calibration gas generation** Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
150ppm	-	1.3 to 10.5%

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Policy Statement and Legal Notices

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