

GASTEC Instructions for No.121AHS Aromatic Hydrocarbon (AHC as Benzene) Detector Tube

FOR SAFE OPERATION :

Carefully read this data sheet and the CO₂ Analyzer Manual from Airborne Labs International, Inc. before using this product.

⚠ WARNING :

1. Use this detector tube only with passivated CO₂ Analyzers offered by Airborne Labs International, Inc.
2. This detector tube cannot be used with any Gastec Gas Sampling Pumps (GV-100, GV-110, No.801, and No.401).

⚠ CAUTION : If not observed, operator injuries or hardware damage may result.

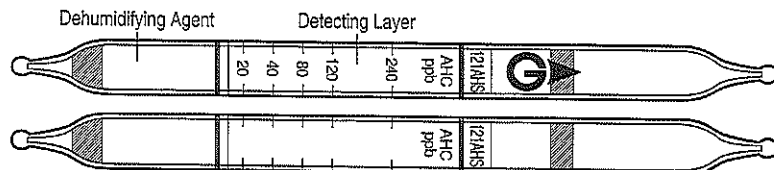
1. When breaking the tube ends, wear safety glasses and keep away from eyes.
2. Do not touch the broken glass tubes, pieces or reagent without using protective gloves.
3. Do not apply more than 152 KPag (22 psig, 1.5 barg) manifold gas pressure to this tube.

⚠ NOTES : For optimal performance and test result reliability.

1. Use the Test Methods and CO₂ Analyzer Models offered by Airborne Labs International, Inc.
2. Use this tube within a temperature range of 20 - 30°C (68 - 86°F).
3. Shelf life*, expiration date, lot number and required refrigerator storage conditions** for this tube are marked on the box cover.

SPECIFICATIONS :

(As a result of Gastec's commitment to continued improvement, specifications are subject to change without notice).



Approx. 180 degree open area for stain contrast viewing

Measuring Range	10 - 240 ppb v/v @400 cc/min × 30.0 min = 12.0L CO ₂
Color Change for Benzene	White → Grey-Tan Sand
Analyte Reaction Principle	Benzene reacts with I ₂ O ₅ and H ₂ S ₂ O ₇ to liberate I ₂ which changes the proprietary indicator to a grey-tan sand shade.

*Shelf Life = 2 Yrs : Please refer to the Expiration Date printed on the box cover.

121AHS tubes must be stored in a cool and dark place. **DO NOT FREEZE.

MEASUREMENT PROCEDURE :

Follow 121AHS (benzene) method instructions provided with CO₂ Analyzer Models available from Airborne Labs International, Inc.

RESULT VERIFICATION PROTOCOL :

Whenever any positive AHC stain is observed, this test should be repeated for consistency. If a duplicate test is repeatable, it is recommended that another CO₂ sample be taken in either ISBT-purity grade polybags (ex. 2×2L True Blue MLB bags) or a 300 cc passivated minicylinder. This follow-up sample should be express shipped to ALI for positive benzene identification and AHC ppb result verification by an alternate, ISBT-approved instrumental method.

DISPOSAL INSTRUCTIONS :

No toxic reagents are used within this tube. For proper tube disposal, follow all local government rules and regulations. MSDS sheets are available from Gastec and Airborne Labs International, Inc.

If you have any questions regarding the safe and proper use of this tube or tube quality, please contact Gastec or Airborne Labs International, Inc***.

***Airborne Labs International, Inc. is a manufacturer of CO₂ Quality Analyzer Systems, which incorporate Gastec detector tubes as an integral part.

Airborne Labs International, Inc.
22C World's Fair Drive, Somerset, NJ 08873
<http://www.airbornelabs.com>
Telephone +1-732-302-1950 Facsimile +1-732-302-3035
Email: airbornelabs@aol.com

Detector Tube Manufacturer :
Gastec Corporation
8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan
<http://www.gastec.co.jp/>
Telephone +81-467-79-3910 Facsimile +81-467-79-3979

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