

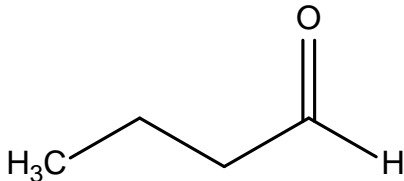
# Certificate

## BUTYRALDEHYDE

(Butanal)

USP Catalog No.: 1084259

USP Lot No.: R013G0

	CAS No.: 123-72-8
	Molecular Formula: C <sub>4</sub> H <sub>8</sub> O
	Molecular Weight: 72.11

**LABEL TEXT**

**USP REFERENCE STANDARD**

**BUTYRALDEHYDE 3 x 1.2 mL**

For use with specified USP compendial tests.  
Not for use as a drug. MSDS available on  
www.usp.org.



**Danger!** Highly flammable liquid and vapor. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.

For quantitative applications, use a value of 0.99 mg of butyraldehyde per mg of material on the as is basis. Use immediately after opening. Dispose of unused portion. Store in a refrigerator.

**KEEP AMPULES IN SECONDARY CONTAINER!**

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666  
CAT. NO. 1084259 Material mfd. in United States

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: Use appropriate media for extinction. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOT: R013G0



**USP REFERENCE STANDARD**

**BUTYRALDEHYDE 1.2 mL**

For use with specified USP compendial tests.  
Not for use as a drug. See SDS prior to use at  
www.usp.org/sds.



**Danger!** See outer package for full hazard information.

For quantitative applications, use a value of 0.99 mg of butyraldehyde per mg of material on the as is basis. Use immediately after opening. Dispose of unused portion. Store in a refrigerator.

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666  
CAT. NO. 1084259 Lot: R013G0  
Material mfd. in United States

*Jeri L. Joth*

Quality Assurance

**Calculation Value**

If a value is not provided on the label or accompanying documentation and the Reference Standard has a quantitative USP compendial application, a value of 100.0% is used. The purity value is not applicable for qualitative uses. Please refer to the specific Reference Standard label for further information.

**Expiration**

Current lots are identified in the current USP Catalog. In some cases, the previous lot may still be considered valid for use. If so, it is identified in the column marked "Previous Lot/Valid Use Date."

It is the responsibility of each user to determine that this lot is current or valid when used. For the most up-to-date information, please refer to the USP Store at [www.usp.org](http://www.usp.org).

**Instructions for Use**

Follow the instructions on the label of the USP Reference Standard and in the appropriate USP documentary standard(s).

**Non-Monograph Use**

The suitability of this Reference Standard for use in non-compendial applications is solely the responsibility of the user.

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