

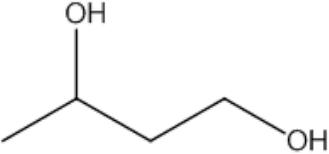
Certificate

BUTANE-1,3-DIOL

USP Catalog No.: 1082956

USP Lot No.: F0M073

Only compendial components as listed in the monograph are shown below

	CAS No.: 107-88-0
	Molecular Formula: C ₄ H ₁₀ O ₂
	Molecular Weight: 90.12

LABEL TEXT

USP REFERENCE STANDARD

BUTANE-1,3-DIOL 1 mL

For quantitative applications, use a value of 0.995 mg of butane-1,3-diol per mg of material on the as is basis. After opening the ampule, store in a tightly closed container in a desiccator.

Warning! Causes eye irritation.

Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

KEEP AMPULE IN SECONDARY CONTAINER!
USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666
CAT. NO. 1082956 Material mfd. in Germany

LOT: F0M073



USP INTENTIONALLY OVER-LABELED STANDARD

BUTANE-1,3-DIOL 1 mL

Warning! Causes eye irritation.

For quantitative applications, use a value of 0.995 mg of butane-1,3-diol per mg of material on the as is basis. After opening the ampule, store in a tightly closed container in a desiccator.

Intentionally over-labeled for GHS compliance

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666
CAT. NO. 1082956 Lot: F0M073
Material mfd in Germany

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

Jeri L. Joth

Quality Assurance

Calculation Value

Unless otherwise stated on the Reference Standard label, a value of 100.0% should be used in the compendial applications for which the use of this Reference Standard is intended. 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.

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.

LEGAL NOTICE

USP WARRANTS GOOD TITLE TO USP REFERENCE STANDARDS ON DISPATCH FROM USP. THE FOREGOING WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY THAT THE PRODUCTS, INCLUDING THIS CERTIFICATE, ARE OF MERCHANTABILITY QUALITY. USP'S LIABILITY ARISING OUT OF OR RELATING TO THE SUPPLY OF USP REFERENCE STANDARDS AND THIS CERTIFICATE SHALL IN NO EVENT INCLUDE LOSS OF PROFITS, COST OF PROCURING SUBSTITUTE GOODS OR SERVICES, OR ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES OF ANY KIND, EVEN IF USP IS AWARE OF THE POSSIBILITY OF SUCH DAMAGES. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, USP DOES NOT WARRANT THAT THE USE OR RESALE OF USP REFERENCE STANDARDS, INCLUDING THEIR USE TO PERFORM TESTS AND ASSAYS PUBLISHED BY USP, WILL NOT INFRINGE UNITED STATES OR ANY OTHER PATENTS.

USP Reference Standards are not intended for use as drugs, dietary supplements, or as medical devices.

This certificate may not be reproduced without the express written permission of USP.