

Status: Currently Official on 14-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-3292D185-393D-4A35-B3BE-4A0175E91AD6_1_en-US
DOI: https://doi.org/10.31003/USPNF_R1737_01_01
DOI Ref: ik3bx

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1,3-Butanediol

(1,3-Butylene Glycol), $C_4H_{10}O_2$ 90.12 CAS RN[®]: 107-88-0.—Viscous, colorless liquid. Very hygroscopic. Soluble in water, in alcohol, in acetone, and in methyl ethyl ketone; practically insoluble in aliphatic hydrocarbons, in benzene, and in toluene.

Assay: Inject an appropriate specimen into a suitable gas chromatograph (see [Chromatography \(621\)](#)) equipped with a flame-ionization detector, helium being used as the carrier gas. The following conditions have been found suitable: a 3-mm × 1.8-m stainless steel column containing 20% phase G16 on support S1A; the injection port temperature is maintained at 265°; the column temperature is maintained at 150° and programmed to rise 8° per minute to 210°. The area of the butanediol peak is not less than 98% of the total peak area.

REFRACTIVE INDEX (831): between 1.4390 and 1.4410 at 20°.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
1,3-BUTANEDIOL	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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