

1, 4-BUTANEDIOL



CA's Number: 110-63-4

Other Names: Tetramethylene Glycol

Formula: HOCH₂CH₂CH₂CH₂OH

PRODUCT INTRODUCTION

1,4-Butanediol, colloquially known as BD, is the organic compound with the formula HOCH₂CH₂CH₂CH₂OH. It is a colorless viscous liquid. It is one of four stable isomers of butanediol.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Purity	99.750 wt%
Color	< 5 APHA
Moisture	118 ppm
Specific Gravity	1.01252 (25/4°C)
Acid Value	0.012 KOH mg/g

APPLICATIONS

- 1, 4-Butanediol (1,4-BDO) versatile chemical intermediate because of its terminal, primary hydroxyl groups and its hydrophobic and chemical resistant nature. Polymers produced upon reaction with diacids or diisocyanates are the basis for many commercial polyurethane and polyester applications. 1, 4-BDO is used to manufacture polybutylene terephthalate (PBT), thermoplastic copolyester elastomers or as a component of polyesters or as a chain extender in polyurethanes.
- On comparison to other diols, 1, 4-BDO combines the best attributes of hydroxyl reactivity, linearity and overall system compatibility to build in the proper crystallinity required in the polyurethane hard segment. Also, the 1, 4-BDO/MDI systems provide a lower exposure hazard than MOCA/TDI systems.
- In thermoplastic urethane elastomers, 1, 4-BDO yields crystalline urethane domains which readily melt and flow at elevated temperatures but phase separate at ambient temperatures in order to yield tough elastomeric networks.
- Cast urethane elastomers continue to be a major end use of 1, 4-BDO because of overall consistency and reliability. Urethane RIM elastomers using 1, 4-BDO allow design freedom and parts consolidation with large, complex shapes.
- Copolyester Hot Melt and Solvent Borne Adhesives. 1, 4-BDO is a key component of polyesters of isophthalic acid and terephthalic acid used in hot melt adhesive applications. 1, 4-BDO yields polyesters with excellent adhesive and cohesive strength.

PACKAGING OPTIONS

1. Iso-Tanks
2. Drums

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