

## High Purity (R) -Butane-1, 3-Diol CAS 6290-03-5 (R) - (-) -1, 3-Butanediol

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Firsky
- Model Number: FS-6290-03-5
- Minimum Order Quantity: 1KG
- Packaging Details: 1kg, 5kg, 15kg, 20kg, 25kg can be packed in different specifications. Packaging can be customized according to customer requirements. Aluminium foil bag and carton.
- Delivery Time: 7-15days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 2000T



### Product Specification

- Product Name: (R)-(-)-1,3-Butanediol
- CAS NO: 6290-03-5
- Purity: 99%
- Shelf Life: 2 Years



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## Product Description

### Specifications:

Chemical Name	(R)-(-)-1,3-Butanediol
Synonyms	(3R)-1,3-Butanediol; (-)-1,3-Butanediol; (R)-(-)-1,3-Butanediol; (R)-1,3-Butanediol; L-Butane-1,3-diol;
CAS Number	6290-03-5
Molecular Formula	C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>
Appearance	Clear Colourless Oil
Molecular Weight	90.12
Storage	4°C
Solubility	Chloroform, Ethanol
Category	Building Blocks;
Applications	(R)-(-)-1,3-Butanediol is a chiral reagent used in the synthesis of pharmaceuticals including the preparation of (-)-tarchonanthuslactone, a $\delta$ -lactone skeleton based compound with antiroliferative activity on cancer cell.

### Description:

(R)-(-)-1,3-Butanediol, CAS 6290-03-5, is a high-value chemical raw material with wide applications in various industries. Below is a detailed product description of this versatile molecule:

(R)-(-)-1,3-Butanediol is a colorless to slightly yellow viscous liquid with a molecular formula of C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> and a molecular weight of 88.1. The density is 1.022g/cm<sup>3</sup>, the melting point is 15~16 , and the boiling point under normal pressure is 230 . It is soluble in water and most common organic solvents.

(R)-(-)-1,3-Butanediol is prepared via a multi-step synthetic route involving the reaction of pyruvate with ethanol in the presence of a catalyst. The obtained product is subjected to purification steps to obtain the desired compound. This compound has important industrial applications as it serves as a building block for the synthesis of a variety of organic compounds, personal care products, and other specialty chemicals.

One of the main applications of (R)-(-)-1,3-butanediol is in the production of cosmetics and personal care products. It is used as a humectant and emollient in creams, lotions and moisturizers to keep skin soft and hydrated. It also acts as a solvent and viscosity reducer in various hair care products such as shampoo and conditioner. Additionally, because of its ability to bind water and other tissues, it can be used as a filler and wrinkle remover in cosmetic surgeries.

(R)-(-)-1,3-Butanediol can also be used to produce biodiesel fuel. Due to its similar physical and chemical properties, it can be used as a replacement for conventional diesel. It can also be used as an additive to improve the performance of lubricating oils and greases.

### Application:

(R)-(-)-1,3-Butanediol, CAS 6290-03-5, is a chiral intermediate useful in the synthesis of various valuable compounds. Here are some common uses of this versatile molecule:

1. Drug production: (R)-(-)-1,3-Butanediol is an important chiral intermediate for the synthesis of various drugs, including antibiotics, analgesics, and anesthetics. It can also be used in the production of HIV protease inhibitors, which are effective antiviral drugs.
2. Cosmetics: In cosmetics industry, (R)-(-)-1,3-Butanediol is used as a humectant and emollient in creams, lotions, and moisturizers to maintain skin softness and hydration. It also acts as a solvent and viscosity reducer in various hair care products such as shampoos and conditioners. In addition, it can be used as a filler and wrinkle reducer in cosmetic surgery procedures due to its ability to bind water and other tissues.
3. Biotechnology: (R)-(-)-1,3-Butanediol is used in biotechnology as a chiral building block for the synthesis of peptides and proteins. It is also used in the production of monoclonal antibodies, which are widely used in medical research and therapy.
4. Polymerization: (R)-(-)-1,3-Butanediol can react with other monomers to form polyesters, polyamides, and polyurethanes with diverse applications in industries such as textiles, packaging, coatings, adhesives, sealants, and insulations.

### Advantage:

1. Firsky (Wuhan) continues to make efforts to steadily offer clients high-quality items. We have put in place a reliable internal quality management system and are always working to increase quality, decrease deviation, and eliminate waste.

2. If you have any questions, don't hesitate to ask them; we'll get back to you within 48 hours.

3. After getting the items, if you have any questions, don't hesitate to get in touch with us. We promise to compensate you in full if we were the source of the loss.

### FAQ:

#### How do I make a purchase?

We advise that you speak with our customer support personnel before placing an order because the market price of chemical raw materials fluctuates often

1. Please let me know which products you require and how many of each you need.
2. We will provide you with the best pricing right away, including delivery charges.
3. If the price seems reasonable to you, you can select a payment option to complete the transaction.
4. After we confirm your payment, your shipment will be wrapped and dispatched within 24 hours.
5. Two days after the package is sent out, a tracking number and packing photo will be provided.
6. We wish you a wonderful shopping experience and encourage you to get in touch with us if there are any problems.

**Which delivery alternatives are available?**

All Fushikai orders are shipped from Japan using FEDEX, UPS, DHL, Airmail, Surface Mail, EMS (Japan Post), and Economical Air (SAL). Depending on the various nations, we will select the best choice. Once payment has been received, the approximate delivery time is 5-7 working days.

**How are your products verified?**

We use our own quality control team to inspect each batch of products. Only at least 98% of pharmaceutical raw materials are used in the synthesis process, rather than cheap sources that are replicated using discarded chemical ingredients. Multiple tests are conducted using cutting-edge equipment to ensure perfect accuracy in determining the potency, purity and quality of ingredients and finished products.

**Does a discount apply to large orders?**

After your order reaches a particular value, there is a large discount. Several seasonal sales and promotions are available from us.

**What forms of payment do you accept?**

We accept payments with Western Union, Bitcoin, e-transfers, bank transfers, MoneyGram, and Alipay in addition to all other forms of cryptocurrency.

**Do you deliver to parcel lockers at PO boxes?**

YES, we could deliver to parcel lockers at PO boxes!

**Can I get a tracking number from you?**

We will provide you the tracking number and some images of the items you ordered as soon as the shipment is planned. For the most up-to-date tracking updates, please go to our preferred site.



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