

# Super Refined™ Benzyl Alcohol

## Benzyl Alcohol

### Pharmaceutical and Health Care Uses

**Super Refined Benzyl Alcohol** is a multi-compendial, high purity aromatic alcohol intended for parenteral dosage forms. This clear, colourless liquid can be used as a preservative, solvent, viscosity reducing agent, or local anesthetic in pharmaceutical applications.<sup>1</sup> Unlike some standard grades of benzyl alcohol, **Super Refined Benzyl Alcohol** is compliant to multiple parenteral monographs and can therefore be used in injectable and other parenteral dosage forms, where excipient purity is crucial. This allows for comprehensive usage of only one product, reducing the need to find a second source for more restrictive applications.

**Super Refined Benzyl Alcohol** has undergone a proprietary purification process that removes impurities and other reactive species, in this case benzaldehyde impurities, that could negatively impact API and formulation stability. This purification process supports the compositional integrity of the product and does not alter the chemical composition in any way.

Understanding the negative impacts of impurities is key when producing high quality pharmaceutical ingredients, as excipient impurities can impact many negative formulation attributes. Some aldehyde impurities are known to cause cellular irritation, which can reduce patient comfort, and subsequently, patient compliance. More generally, aldehydes can induce further oxidation and breakdown of both the excipient itself and the API due to their inherent nature of being a reactive species, ultimately leading to undesirable formulation attributes, such as formulation instability and reduced efficacy. Through the removal of problematic impurities, Super Refined products are pure, high quality products desired by the pharmaceutical industry.

To preserve the integrity and purity of **Super Refined Benzyl Alcohol**, all samples and commercial product are packaged under inert conditions.

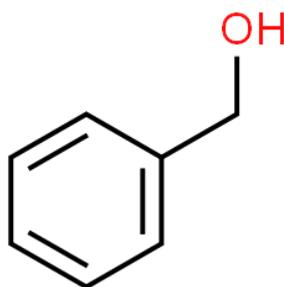


Figure 1: Chemical representation of Super Refined Benzyl Alcohol<sup>2</sup>

### Key Benefits

- FDA IID listed
- Monograph compliant for parenteral usage
- Ideal for injectable and other parenteral dosage forms

**Technical Data**

|                             |   |
|-----------------------------|---|
| Appearance                  | Clear, colourless liquid  |
| Benzaldehyde                | <0.05 %   |
| FDA IID listed <sup>3</sup> | Yes: Injectable, Topical, Oral, Nasal, Auricular, Ophthalmic, Vaginal, Rectal |
| Monograph compliant         | USP/NF, PhEur, JP   |

Detailed selling specification available on request

**References**

1. "Benzyl Alcohol." *National Center for Biotechnology Information. PubChem Compound Database*, U.S. National Library of Medicine, <https://pubchem.ncbi.nlm.nih.gov/compound/Benzyl-alcohol>.
2. "Benzyl Alcohol." *ChemSpider*, Royal Society of Chemistry, <http://www.chemspider.com/Chemical-Structure.13860335.html?rid=ba911f49-d469-474f-bdfb-c4f2fd6aedb4>.
3. "Benzyl Alcohol." *Inactive Ingredient Search for Approved Drug Products*, U.S. Food and Drug Administration, <https://www.accessdata.fda.gov/scripts/cder/iig/index.cfm>.

**Non-warranty**

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