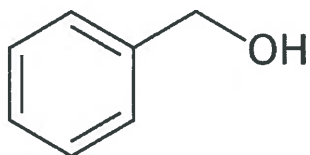




Kalama® Benzyl Alcohol

CAS No.: 100-51-6 EC No. 202-859-9



Alpha hydroxyl toluene, Phenyl methanol
 $C_6H_5-CH_2OH = 108.14 \text{ g/mol}$
Nature Identical ingredient
HTS No. 2906.21
FEMA No. 2137

Grades Available

Kalama® Benzyl Alcohol is available in three grades to best suit our customer's needs: TECHNICAL, NF/FCC, and NF-Parenteral.

Kalama® Benzyl Alcohol Technical

Kalama® Benzyl Alcohol Technical is used as a general solvent; in the formulation of inks and lacquers; as a raw material in the manufacture of its various esters, used in the soap, perfume, and flavor industries; and as an intermediate in the synthesis of polypeptides. It is also used extensively as a non-reactive compound where it reduces the viscosity and raises the flexibility of epoxy resin coatings.

Kalama® Benzyl Alcohol NF/FCC

Kalama® Benzyl Alcohol NF/FCC is used in the pharmaceutical industry in emulsions and ointments, and in lotions for the relief of insect bites. In the cosmetics industry it is used as a preservative in conjunction with parabens and with methylisothiazolinone. Kalama® Benzyl Alcohol NF/FCC also meets EP requirements and specifications.

Kalama® Benzyl Alcohol NF-Parenteral

Kalama® Benzyl Alcohol NF-Parenteral is used in the pharmaceutical Industry in the manufacture of injectable materials. Kalama® Benzyl Alcohol NF-Parenteral also meets EP parenteral requirements and specifications.

Shelf Life

The recommended retest date is 24 months from the date of manufacture. The product should be protected from freezing or excessive heat in a dry area with no possibility of coming in contact with moisture and/or condensate. It is required to keep benzyl alcohol under the padding of an inert gas to decrease the possibility of product oxidation.

All sampling should be done in clean, tightly sealed sample containers previously purged with inert gas, and padded after sampling with inert gas. If a drum of product is not used completely after first opening, the container should be re-padded with inert gas before being returned to storage under the conditions described above. Check quality before use if drums have been opened.

Handling

Benzyl Alcohol is a non-corrosive and stable liquid. In the presence of air, it can oxidize to benzaldehyde. For this reason, storage tanks should be blanketed with nitrogen gas. Partially used drums of benzyl alcohol should also be blanketed with nitrogen. Since benzyl alcohol freezes at +4°F, suitable precautions should be made for cold weather.

Emerald Kalama Chemical, LLC stores all of its benzyl alcohol product in type 304 stainless steel tanks, and uses stainless steel pumps and pipelines. Assistance to customers for their particular requirements is available upon request.

Since benzyl alcohol is an excellent solvent, contact with plastics other than fluorinated polymers or poly-olefins should be avoided. High density polyethylene drums have been found to be satisfactory for Technical grade product.

Typical Physical Properties

Boiling Point	205° C	@760 mm Hg
Melting Point	-15.3° C (+4.5°F)	
Specific Gravity	1.045	@ 25° C
Flash Point	210° F (98.9° C)	
Auto ignition Temperature	817° F (436° C)	
Viscosity	8 cP	@ 20° C
Vapor Pressure	<1 mm Hg	@ 20° C
Solubility in Water	4 grams / 100 grams water	@ 20° C
Produced at	Kalama, Washington, USA	

Above properties are typical of Benzyl Alcohol and should not be confused with, or regarded as, sales specifications.

Packaging

Benzyl Alcohol is available in the following containers:

1. 55-gallon non-returnable steel drums with baked phenolic rein lining, 210 kg (463#)- All grades except NF-Parenteral.
2. 55-gallon non-returnable stainless steel drums, 201 kg (463#) (NF-Parenteral Grade only).

Technical Grade Benzyl Alcohol is also available in the following containers:

1. 5,000 gallon (U.S.) stainless steel tank trucks
2. 5,000 gallon (U.S.) stainless steel iso-containers
3. 20,000 gallon (U.S.) phenolic-resin lined tank cars
4. 1,050 kg (2,315#) High Density Polyethylene Intermediate Bulk Containers

Committed to Quality, Excellence, and Leadership

We strive to be your supplier of choice by providing service and value to our customers through continuous improvement initiatives, plant expansions, acquisitions, and new product development. Our facility in Kalama, Washington has continued to build a portfolio of flavor and fragrance ingredients based on benzaldehyde, and is now a leading global supplier of hexyl cinnamic aldehyde (HCA), amyl cinnamic aldehyde (ACA), cinnamic aldehyde, cinnamic alcohol, benzaldehyde, benzyl alcohol, linear aldehydes (C6A, C8A, C10A), and methyl benzoate. Our newest facility in Widnes, United Kingdom also produces a wide range of high purity aroma chemicals derived from benzaldehyde and terpene raw materials, creating key ingredients for many fragrance applications.

In addition, Emerald Kalama Chemical produces other benzoates for personal care, household care, cosmetics, and food and beverage applications. These include Purox®B benzoic acid, Kalama® Benzaldehyde, Kalama® Benzyl Alcohol, and Purox®S and Kalama® Sodium Benzoate. These products are used as high quality antimicrobials, preservatives, and raw materials in many applications and are produced at our facilities in Kalama, Washington and Rotterdam, The Netherlands.

Reaching for the Highest Standards

Our experienced technical, quality control, and regulatory personnel work diligently to ensure our products meet or exceed all applicable standards and that our processes and procedures are in compliance with standards such as cGMP.

Our manufacturing facilities have ISO 9001:2015 and ISO 14001:2015 certified programs in place. Kalama offers products meeting the requirements of the US Pharmacopeia, National Formulary, Food Chemicals Codex, and European Pharmacopeia, in addition to Kosher and Halal certifications. Our customers also benefit from raw materials with no chlorinated compounds. Certain products are manufactured following FSSC 22000 certified food safety management programs.

Serving You Globally

The Emerald Kalama Chemical operations in Kalama, Washington, Rotterdam, The Netherlands, and Widnes, United Kingdom are amongst the largest and most efficient of their kind in the world. Our facilities are strategically located to serve our customers' needs globally. We have been in business for nearly 50 years, both as Emerald and as part of our predecessor organizations—building upon our expertise to offer the best products and services today.

Emerald Kalama Chemical is a business group of Emerald Performance Materials. With operations in Europe and the United States, Emerald Kalama Chemical is a world-scale producer of benzoic acid, various benzoate and dibenzoate esters, flavor, fragrance, and pharmaceutical ingredients, alcohol and aldehyde derivatives for food preservation, plasticizers, and industrial applications. The company has three businesses focused on Antioxidants and Accelerators, Consumer Specialties, and Industrial Specialties and over 500 employees to serve our customers' needs globally.

Emerald Performance Materials manufactures adhesives and polymers to make your products last longer, and look, taste, smell, or perform better. We serve many consumer and industrial applications, such as food and beverage, flavor and fragrance, coatings, adhesives, rubber, plastics, composites, ink, paper, textiles, and others.

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