



Product Information Sheet

Benzyl Alcohol

NF/FCC grade

Emerald Kalama Chemical is a leading producer of benzyl alcohol. The use of our toluene oxidation process ensures that benzyl alcohol produced by Emerald Kalama Chemical contains no chlorine, in contrast to benzyl alcohol produced by the toluene chlorination process.

Large number of applications.

Our benzyl alcohol is the right choice for a large number of pharmaceutical, food and technical applications. It is particularly useful as a solvent in many specialist applications and as a starting material for other chemicals. The advantages of benzyl alcohol as a solvent are its low volatility and low toxicity. The product is used as a coalescing agent or as a co-solvent. It has a good performance in dissolving hydrophobic amines in water-based systems and also acts as a viscosity-reducing agent in some coating systems.

Benzyl alcohol is a versatile co-solvent used in a wide range of curing agent formulations for epoxy resins used in coatings, flooring systems, adhesives, etc. The product can also be used as a co-catalyst and plasticizer and to keep the temperature low during the curing process.

In paint strippers benzyl alcohol is used as an environmentally friendly substitute for methylene chloride. Major applications are in industrial paint stripping (in particular in formulations used for aircraft) and in architectural, professional and do-it-yourself paint stripping.

In the pharmaceutical industry benzyl alcohol is used as a preservative, in emulsions and ointments and in insect-bite lotions.

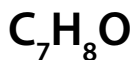
Benzyl alcohol NF/FCC grade is used as a raw material in the manufacture of its various esters, which are used in the soap, perfume and flavor industries and as an intermediate in the synthesis of polypeptides. Examples of these esters are benzyl acetate and benzyl benzoate. Benzyl acetate is used in flavors for its pear-like taste, as a jasmine perfume ingredient and as a fixative for artificial musks. Benzyl benzoate finds application in pharmaceuticals, as a fixative in perfumes, as a flavoring in confectioneries and chewing gums, and as a softener in lacquers.

Based on the high purity and stable odor profile our benzyl alcohol is also used for fragrance applications. Other applications of benzyl alcohol include coatings, lacquers, photo developer systems, metal cleaning formulations, cosmetics and hair care applications.



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

NF/FCC grade



CAS No. 100-51-6
EINECS No. 202-859-9

PRODUCT SPECIFICATION

Characteristic	Spec. Range	Unit
Assay	99.9 min.	wt %
Benzaldehyde	400 max.	mg/kg
Chlorine	2 max.	mg/kg
Water	0.1 max.	wt %
Acidity (as benzoic acid)	0.05 max.	wt %
Color	5 max.	APHA

This material meets the requirements of FCC, USP/NF, Ph.Eur. and BP and is certified Kosher and Kosher for Passover  and certified  Halal.

ADDITIONAL PRODUCT INFORMATION

Appearance	Colorless liquid
Odor	Faintly aromatic
Density	1042 - 1047 g/dm ³ (25 °C)
Solubility (in water)	40 g/l (20 °C)
Solidification point	-15 °C
Packaging	In bulk, PE drums and IBCs
PE drum information	Net weight 210 kg, tare weight 8.5 kg, 58X58X93 cm
IBC information	Net weight 1000 kg, tare weight 60 kg, 120X100X116 cm
Storage	Under nitrogen/dark; product is oxidation-sensitive
Shelf life	2 years
Stabilizing agents	None
Additives	None

About Emerald.

Emerald Kalama Chemical is Division of Emerald Performance Materials, a manufacturer of additives and polymers which make your products last longer, look, taste, smell, or perform better. Emerald is headquartered in Cuyahoga Falls, Ohio. The company has 4 business units, eight operations and approximately 700 employees. The Emerald Kalama Chemical Division is a world-scale producer of a variety of toluene oxidation products, with production facilities in the US and Europe. Products include benzoic acid, and various benzoate and dibenzoate ester, alcohol and aldehyde derivatives for food preservatives, flavor and fragrance ingredients, plasticizers and industrial applications. For more about Emerald, visit www.emeraldmaterials.com.



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