

Kalama™ BENZYL ALCOHOL

SYNONYMS: Alpha hydroxyl toluene
Phenyl methanol

INCI NAME: BENZYL ALCOHOL

FORMULA: C₆H₅ - CH₂OH (C₇H₈O)

MOLECULAR WEIGHT: 108.14

CAS REGISTRATION NUMBER: 100-51-6

FEMA NUMBER: 2137

EINECS NUMBER: 202-859-9

HTS NUMBER: 2918.23

GRADES AVAILABLE: TECHNICAL, N.F./F.C.C./E.P., N.F. PARENTERAL

USES: Benzyl alcohol, Technical grade, 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.

The N.F./F.C.C./E.P. grade of benzyl alcohol 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.

The N.F.-Parenteral grade of benzyl alcohol is used in the pharmaceutical industry in the manufacture of injectable materials.

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 T.C.C.	210° F (98.9° C)	
AUTOIGNITION 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

(The above properties are typical of BENZYL ALCOHOL, but should not be confused with, or regarded as, sales specifications.)

HANDLING: Benzyl alcohol is a non-corrosive and stable liquid. In the presence of air, it will very slowly 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 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.

The recommended re-test date for Benzyl Alcohol is twenty-four (24) months from the date of manufacturing. 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 in an airtight container and 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.

PACKAGING: Benzyl Alcohol is available in the following containers:

- 1) 55 gallon non-returnable steel drums with baked phenolic resin lining, 210 Kg (463 #)
(All grades except Parenteral)
- 2) 55 gallon non-returnable stainless steel drums, 210 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

Emerald Kalama Chemical, LLC Sales Offices

**Customer Service
Kalama, WA**

**1-800-223-0035
1-800-233-7799
Fax 1-360-673-3564**

Stock Points

Edison, NJ
Kalama, WA
Antwerp, Belgium
Singapore

NOTE: The information presented herein is believed to be true and accurate. However, all suggestions and recommendations are made without guarantee. Our technical personnel are always ready to respond to inquiries regarding the safe handling of any of our products.

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