Technical Data Sheet

Benzyl Alcohol

Revision: July 2026

Product Description

Benzyl alcohol ($C_6H_5CH_2OH$) with CAS No. 100-51-6 is an aromatic, colorless liquid with a mild, pleasant odor. It is a useful solvent due to its polarity, low toxicity, and low vapor pressure. It is partially soluble in water (4 g per 100 ml) and completely miscible in alcohols and diethyl ether.

Application Areas

Benzyl alcohol is used as a general solvent for inks, paints, lacquers, and epoxy-based coatings. Thus, it can be used in paint strippers/removers, especially when combined with compatible viscosity enhancers to encourage the mixture to cling to painted surfaces. It is also a precursor to a variety of esters, used in the soap, perfume, and flavor industries. Moreover, it is used as a photographic developer. Common applications of benzyl alcohol are given as follows:

- Modifier and solvent for epoxy resin's curing.
- Epoxy-based paint, floor, encapsulation, adhesive, and ornaments.
- Medicine, synthetic solvent, preservative for ointment, or liquid medicine.
- Photographic developing agent, cleaning agent, synthetic glass solvent, and lens colorant.
- Solvent for stamp-pad ink and ball-point pen oil.
- Fixative and compound perfumes of soap and daily cosmetics.

Safety, Storage & Handling

Contact may irritate skin, eyes, and mucous membranes. May be slightly toxic by ingestion. It is also sensitive to light. Store in light-resistant containers and keep the container in a cool, well-ventilated area. Keep the container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Product Specification

Property	Unit	Value	Test Method/Standard
Appearance	-	Colorless Transparent Liquid	Visual
Purity	%	> 99.95	GC
Color	Hazen	≤ 5	ASTM D1209
Specific Gravity @20°C	kg/m^3	1.04 – 1.05	ASTM D4052
Chloride Content	%	≤ 0.005	ASTM D7959
Moisture Content	%	≤ 0.1	ASTM E1064
Refractive Index	-	1.530 – 1.550	ASTM D1218
Benzaldehyde Content	ppm	≤ 300	HPLC

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