



PRODUCT SPECIFICATIONS SHEET

Product Name Benzyl Alcohol
 Grade NF/FCC Grade
 Catalog # ZH303NF/FCC

TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
Identification A - Infrared Spectroscopy	NF	Conforms to Reference Spectrum	Pass
Identification - Infrared Absorption	FCC	Conforms to Reference Spectrum	Pass
Assay	NF	98.0% - 100.5% C ₇ H ₈ O	99.98 %
Assay	FCC	NLT 99.0% of C ₇ H ₈ O	99.98 %
Impurities - Fats and Fixed Oils / Peroxide Value	NF	NMT 5	1
Impurities - Residue on Evaporation	NF	NMT 0.05%	0.00 %
Organic Impurities - Benzaldehyde	NF	0.15% max.	0.02 %
Organic Impurities - Cyclohexylmethanol	NF	0.10% max.	0.00 %
Organic Impurities - Peaks with RT < C ₇ H ₈ O	NF	0.04% max.	0.00 %
Organic Impurities - Peaks with RT > C ₇ H ₈ O	NF	0.30% max.	0.00 %
Aldehydes	FCC	NMT 0.2%	0.00 %
Acidity	NF	NMT 1 mL of 0.1M NaOH solution is required	0.1 ml
Clarity of Solution	NF	Test Solution shows same clarity as that of water, or its opalescence is not more pronounced than that of Reference suspension 1	Pass
Color of Solution	NF	The Test solution has the color of water	Pass
Description	FCC	Colorless liquid with sharp burning taste and faint aromatic	Pass



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TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
		odor. Miscible with alcohol, chloroform, ether; 1 mL dissolves in 30 mL of water	
Refractive Index	NF	1.538 - 1.541 @ 20°C	1.541
Refractive Index	FCC	1.539 - 1.541 @ 20°C	1.541
Specific Gravity	FCC	1.042 - 1.047 @ 25°C	1.044
Chlorinated Compounds	FCC	To Pass Test	Pass
Distillation Range	FCC	NLT 95% distills between 202.5-206.5°C	Pass

Certification and Compliance Statements

This product complies with all of the current requirements listed in the National Formulary and Food Chemical Codex monographs.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Benzyl alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Benzyl Alcohol. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467> and ICH Q3C Impurities: Residual Solvents.

Greenfield products are for further commercial manufacturing, laboratory use, or research. Greenfield is not registered with the United States Food and Drug Administration (FDA) as a drug manufacturing facility. Greenfield products are not registered with the FDA as active pharmaceutical ingredients in drug manufacturing.

Appropriate/legal use of all products are the responsibility of the user and subject to applicable local laws and regulations.